

# VDOİHİ

Bağımlı ve Bir Bağımsız  
Olasılıklı Farklı Dizilimli  
Bağımlı-Bir Bağımsız  
Durumlu Simetrinin Bağımsız  
Durumla Başlayan  
Dağılımlarda Simetrisiyle  
İlişkili Toplam Düzgün  
Olmayan Simetrik Olasılık

Cilt 2.1.31.3

**Matematik / İstatistik / Olasılık**

**ISBN: 978-625-7774-53-6**

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## **KÜTÜPHANE BİLGİLERİ**

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**VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimli Bağımlı-Bir Bağımsız Durumlu Simetrisinin Bağımsız Durumla Başlayan Dağılımlarda Simetrisiyle İlişkili Toplam Düzgün Olmayan Simetrik Olasılık-Cilt 2.1.31.3 / İsmail YILMAZ**

*e-Basım, s. XXXXII + 1158*

*Kaynakça yok, dizin var*

*ISBN: 978-625-7774-53-6*

*1. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli toplam düzgün olmayan simetrik olasılık 2. Bağımlı-bir bağımsız durumlu simetrisinin toplam düzgün olmayan simetrik olasılığı*

*Dili: Türkçe + Matematik Mantık*

## Yazar Hakkında

İsmail YILMAZ; Hamzabey Köyü, Yeniçağa, Bolu'da 1973 yılında doğdu. İlkokulu köyünde tamamladıktan sonra, ortaokulu Yeniçağa ortaokulunda tamamladı. Liseyi Ankara Ömer Seyfettin ve Gazi Çiftliği Liselerinde okudu. Lisans eğitimini Çukurova Üniversitesi Fen Edebiyat Fakültesi Fizik bölümünde ve doktora eğitimini Gazi Üniversitesi Eğitim Bilimleri Enstitüsü Fen Bilgisi Eğitimi Anabilim Dalında tamamladı. Fen Bilgisi Eğitiminde; Newton'un hareket yasaları, elektrik ve manyetizmanın prosedürel ve deklaratif bilgi yapılarıyla birlikte matematik mantık yapıları üzerine çalışmalar yapmıştır. Yazarın farklı alanlarda yapmış olduğu çalışmalar arasında ölçme ve değerlendirmeye yönelik çalışmaları da mevcuttur.

## Yazar ve VDOİHİ

Yazar doktora tez çalışmasına kadar, dijital makinalarla sayısallaştırılabilen fakat insan tarafından sayısallaştırılmayan verileri, anlamlı en küçük parça (akp)'larına ayırıp skorlandırarak, sayısallaştırma problemini çözmüştür. Anlamlı en küçük parçaların Türkçe kısaltmasını olasılığın birimlendirilebilir olmasından dolayı, olasılığın birimini akp olarak belirlemiştir. Matematiğinin başlangıcı olasılık olan tüm bağımlı değişkenlerde olabileceği gibi aynı zamanda enformasyonunda temeli olasılık olduğundan, enformasyon içeriğinin de doğal birimi akp'dir.

Verilerin objektif lojik simplisitede sayısallaştırılmasıyla Veri Değişkenleri Olasılık ve İhtimal Hesaplama İstatistiği (VDOİHİ) geliştirilmeye başlanmıştır. Doktora tezinin nitel verilerini, bir ilk olarak, -1, 0, 1 skorlarıyla sayısallaştırarak iki tabanlı olasılığı sınıflandırıp; pozitif, negatif (ve negatiflerdeki pozitif skorlar için ayrıca eşitlik tanımlaması yapıp), ilişkisiz ve sıfır skor aşamalarında değerlendirme yöntemi geliştirmiştir. Bu yöntemin tüm kavramlarının; tanım ve formülleriyle sınırları belirlenip, kendi içinde tam bir matematiği geliştirilip, uygulamalarla veri elde edilmiş, verilerin hem değerlendirmeleri hem de bulguların sözel ifadelerini veren yazılım paket programı yapılarak, bir disiplinin tüm yönleri yazar tarafından gerçekleştirilerek doktorasını bilim tarihinde yine bir ilk ile tamamlamıştır. Nitel verilerden elde edilebilecek bulguların sözel ifadelerini veren yazılım paket programı gerçek ve olması gereken yapay zekanın ilk örneğidir.

Yazar, ölçme araçları için madde tekniği tanımlayıp, değerlendirme yöntemlerini belirginleştirilerek, eğitimde ölçme ve değerlendirme için beş yeni boyut aktiflemiştir. Ölçme ve değerlendirmeye, aktif ve pasif değerlendirme tanımlaması yapılarak, matematiği geliştirilmiş ve geliştirilmeye devam edilmektedir. Yazar yaptığı çalışmalarda Problem Çözüm Tekniklerini (PÇT) aktifleyerek; verilenler-istenilenler (Vİ), serbest cisim diyagramı/çizim (SCD), tanım, formül ve işlem aşamalarıyla, eğitimde ölçme ve değerlendirmede beş boyut daha aktiflemiştir. PÇT aşamalarını bilgi düzeyi, çözümlerin sonucunu da başarı düzeyi olarak tanımlayıp, ölçme ve değerlendirme için iki yeni boyut daha kazandırmıştır. Sınıflandırılmış iki tabanlı olasılık yönteminin aşamaları ve negatiflerdeki pozitiflerle, ölçme ve değerlendirmeye beş yeni boyut daha kazandırılmıştır. Verilerin; Shannon eşitliği veya VDOİHİ'de verilen olasılık-ihtimal eşitlikleriyle değerlendirmeyi bilgi

merkezli, matematiksel fonksiyonlarla (lineer, kuvvet, trigonometri “sin, cos, tan, cot, sinh, cosh, tanh, coth”, ln, log, eksponansiyel v.d.) değerlendirmeyi ise birey merkezli değerlendirme, sınırlandırması getirerek, değerlendirmeye iki yeni boyut daha kazandırmıştır. Ayrıca  $\frac{a}{b} + \frac{c}{d}$  ve  $\frac{a+c}{b+d}$  matematiksel işlemlerinin anlam ve sonuç farklılıklarını, değerlendirme için aktifleyerek, değerlendirmeye iki yeni boyut daha kazandırmıştır. Böylece eğitimde ölçme ve değerlendirmeye; PÇT aşamaları  $5 \times 5$ , yine PÇT'nin bilgi ve başarı düzeylerinin  $2 \times 2$ , sınıflandırılmış iki tabanlı olasılık yöntemi  $5 \times 5$ , bilgi ve birey merkezli ölçme ve değerlendirmeyle  $2 \times 2$ , matematiksel işlem farklılıklarıyla  $2 \times 2$  olmak üzere 40.000 yeni boyut kazandırmıştır. Bu boyutlara yukarıda verilen matematiksel fonksiyonlarında dahil edilmesiyle en az  $(13 \times 13)$  6.760.000 yeni boyutun primitif düzeyde, ölçme ve değerlendirmeye, katılabilmesinin yolu yazar tarafından açılmış olmasına karşılık, günümüze kadar yukarıda bahsedilen boyutların ilgi düzeyinde, eğitimde ölçme ve değerlendirmede, tek boyuttan öteye (lineer değerlendirme) geçirilememiştir. Bu noktadan sonra, ölçme ve değerlendirmeye fark istatistiğiyle boyut kazandırılabilmiştir. Fark istatistiğiyle kazandırılan boyutlarında hem ihtimallerden çıkarılacak yeni boyutlar hem de ihtimallerin fark istatistiğinden türetilebilecek boyutların yanında güdük kalacağı kesin! Ölçme ve değerlendirmeye yeni boyutlar kazandırılmasının en önemli amaçları; beynin öğrenme yapısının kesin bir şekilde belirlenebilmesi ve öğretim süreçlerinin bilimsel bir şekilde yapılandırılabilmesidir. Beyinle ilgili VDOİHİ Bağımlı Olasılık Cilt 1'in giriş bölümünde verilenlerin genişletilmesine ileride devam edilecektir. Fakat öğretim süreçlerinin; teorik öngörülerle ve/veya insanın yaratılışına uyma olasılığı son derece düşük doğrusal değerlendirmelerle yapılandırılması, yazar tarafından insanlığa ihanet olarak görüldüğünden, doğru verilerle eğitimin bilimsel niteliklerde yapılandırılabilmesi için, ölçme ve değerlendirmeye yeni boyutlar kazandırılmaktadır.

Günümüze kadar yaşayan dillere 10 kavram bile kazandırabilen hemen hemen yokken, yayınlanan VDOİHİ ciltlerinde (cilt 1, 2.1.1, 2.2.1, 2.3.1 ve 2.3.2) yaklaşık 1000 kavram Türkçeye kazandırılarak ciltlerin dizinlerinde verilmiştir. Bu kavramların tüm sınırları belirlenip, açık ve anlaşılır tanımlarıyla birlikte, eşitlikleri de verilmiştir. Bu düzeyde yani bilimsel düzeyde, bilime kavramlar Türkçe olarak kazandırılmıştır. Yayınlanacak VDOİHİ'lerde bilime Türkçe kazandırılacak kavramların on binler düzeyinde olacağı öngörülmektedir.

VDOİHİ'de verilen eşitlikler aynı zamanda dillerinde eşitlikleridir. Diğer bir ifadeyle dillerin matematik yapıları VDOİHİ ile ortaya çıkarılmıştır. Türkçe ve İngilizcenin olasılık yapıları VDOİHİ'de belirlenerek, formüllerin dillere (ağırlıklı Türkçe) uygulamalarıyla hem dillerin objektif yapıları belirginleştiriliyor hem de makina-insan arası iletişimde, makinaların iletişim kurabilmesinde en üst dil olarak Türkçe geliştiriliyor. İleriki ciltlerde Türkçenin matematik mantık yapısı da verilerek, Türkçe'nin makinaların iletişim dili yapılması öngörülmektedir.

Bilim(de) kesin olanla ilgileni(li)r, yani bilim eşitlik ve/veya yasa üretir veya eşitliklerle konuşur. Bunun mümkün olmadığı durumlarda geçici çözümler üretilebilir. Bu geçici çözümler veya yöntemleri, her hangi bir nedenle bilimsel olamaz. Bilimin yasa veya eşitlik üretimindeki kırılma, Cebirle başlamıştır. Bilimdeki bu kırılma mühendisliğin, teknolojiye

dönüşümünün başlangıcıdır. Bilimdeki kırılma ve mühendisliğin teknolojiye dönüşümü, insanlığın gelişimini hızlandırmakla birlikte, bu alanda çalışanların; ego, öngörüsüzlük, ufuksuzluk ve beceriksizlikleri gibi nedenlerden dolayı, insanlığın gelişimi ivmelendirilemediği gibi bu basiretsizliklerle insanlığa pranga vurmaya bile kısmen başarabilmişlerdir. VDOİHİ ve telifli eserlerinde verilen; değişken belirleme, eşitlik-yasa belirleme ve bunların sözel yorumlarını yapabilen yazılımlarla, ve yapılabilecek benzeri yazılımlarla, insanlığın gelişimi ivmelendirilebileceği gibi isteyen her bireye, gerçeklerin (VDOİHİ Bağımlı Olasılık Cilt 1'in giriş bölümünde tanımlanmıştır) bilgi ve teknolojisine daha kolay ulaşabilme imkanı sağlanmıştır.

Şuana kadar zaruri tüm tanımların, zaruri tüm eşitliklerin ve bunların epistemolojileriyle (0. epistemolojik seviye) en azından 1. epistemolojik seviye bilgilerinin birlikte verildiği ya ilk yada ilk örneklerinden biri VDOİHİ'dir. Bu kapsamda VDOİHİ'de şimdiye kadar yaklaşık 1000 kavramın, bilime kazandırıldığı yukarıda belirtilmiştir. Bu kapsamda yine VDOİHİ'de 5000'in üzerinde orijinal; ilk ve yeni eşitlik geliştirilmiştir. Bu eşitlikler kasıtlı olarak ilk defa dört farklı yapıda birlikte verilmektedir. Bu eşitlikler; a) sabit değişkenli (örneğin; bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitlikleri) b) sabit değişkenli işlem uzunluklu (örneğin; simetrisinin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitliği) c) hem değişken uzunluklu hem işlem uzunluklu (örneğin; simetrisinin her durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitliği) d) sabit değişkenli zıt işlem uzunluklu (bu eşitlik VDOİHİ cilt 2.1.3'ten itibaren verilecektir. Örneğin;  $\sum_{i=5}^n \mp$ ) yapılar da verilmektedir. Sabit değişkenli eşitliklerle, bilim ve teknolojiye gereksinimlerin çoğunluğu karşılanabilirken, geleceğin bilim ve teknolojisinde ihtiyaç duyulabilecek eşitlik yapıları kasıtlı olarak aktiflenmiş veya geliştirilmiştir.

İnsanın hem öğrenmesinin desteklenmesi hem de bilginin teknolojiyle ilişkisini kurabilmesi için özellikle VDOİHİ Soru Problem İspat Çözümleri ciltlerinde, soru ve problem birbirinden ayrılarak yeniden tanımlanıp sınırları belirlenmiştir. Böylece örnek, soru, problem ve ispat arasındaki farklılıklar belirginleştirilmiştir. Ayrıca yine insanın hem öğrenmesinin desteklenmesi hem de bilginin teknolojiyle ilişkisini daha kesin kurabilmesi için Sertaç ÖZENLİ'nin İlmî Sohbetler eserinin M5-M6 sayfalarında verilen epistemolojik seviye tanımları; örnek, soru, problem ve ispatlara uyarlanmıştır. Böylece; örnek, soru, problem ve ispatların epistemolojileriyle, hem bilgiyle-öğrenme arasında hem de bilgi-teknoloji arasında yeni bir köprü kurulmuştur.

Geride bıraktığımız yüzyılda, özellikle Turing ve Shannon'un katkılarıyla iki tabanlı olasılığa dayalı dijital teknoloji kurulabilmiştir. Kombinasyon eşitliğiyle iki tabanlı simetrik olasılıklar hesaplanabildiğinden, ihtimalleri de kesin olarak hesaplanabilir. İki tabanlı büyük tabanların; bağımsız olasılık, bağımlı olasılık, bağımlı-bağımsız olasılık, bağımlı-bağımlı olasılık veya bağımsız-bağımsız olasılık dağılımlarındaki simetrik olasılıkları VDOİHİ'ye kadar kesin olarak hesaplanamadığından (hatta VDOİHİ'ye kadar olasılığın sınıflandırılması bile yapılmamış/yapılamamıştır), farklı tabanlarda çalışabilecek elektronik teknolojisi kurulamamıştır. VDOİHİ'de verilen eşitliklerle, hem farklı olasılık dağılımlarında hem de her tabanda simetrik olasılıkların olabilecek her türü, hesaplanabilir kılındığından, ihtimalleri de

kesin olarak hesaplanabilir. Böylece VDOİHİ’de verilen eşitliklerle hem istenilen tabanda hem de istenilen dağılım türlerinde çalışabilecek elektronik teknolojinin temel matematiği kurulmuştur. Bundan sonraki aşama bilginin-ürüne dönüşme aşamasıdır. Ayrıca VDOİHİ’de özellikle uyum eşitlikleri kullanılarak farklı dağılım türlerine geçişin yapılabileceği eşitliklerde verilerek, dijital teknoloji yerine kurulacak her tabanda ve/veya her dağılım türünde çalışan teknolojinin istenildiğinde de hem farklı taban hem de farklı dağılım türlerine geçişinin yapılabileceği matematik eşitlikleri de verilmiştir. Böylece tek bir tabana dayalı dijital teknoloji yerine, sonsuz çalışma prensibine dayalı elektronik teknolojinin bilimsel-matematiksel yapısı VDOİHİ ile kurulmuş ve kurulmaya devam etmektedir.

VDOİHİ’de verilen eşitlikler aynı zamanda en küçük biyolojik birimden itibaren anlamlı temel biyolojik birimin “genetiğin” temel matematiğidir. En küçük biyolojik birim olarak DNA alındığında, VDOİHİ’de verilen eşitlikler DNA, RNA, Protein, Gen ve teknolojilerinin temel eşitlikleridir. Bu eşitlikler VDOİHİ’de teorik düzeyde; DNA, RNA, Protein, Gen ve hastalıklarla ilişkilendirilmektedir. Bu eşitlikler gelecekte atom düzeyinden başlanarak en kompleks biyolojik birimlere kadar tüm biyolojik birimlerin laboratuvar ortamlarında üretiminin planlı ve kontrollü yapılabilmesinde ihtiyaç duyulacak temel eşitliklerdir. Böylece bir canlının, örneğin insanın, atom düzeyinden başlanarak laboratuvar ortamında üretilebilir/yapılabilir kılınmasının, matematiksel yapısı ilk defa VDOİHİ’de verilmektedir. Elbette bir insanın laboratuvar ortamında üretilebilir olmasıyla, bunun gerçekleştirilmesi aynı değildir. Gerçekleştirilebilmesi için dini, etik, ahlaki v.d. aşamalarda da doğru kararların verilmesi gerekir. Fakat organların v.b. biyolojik birimlerin laboratuvar ortamında üretilmesinin önünde benzeri aşamaların engel oluşturduğu söylenemez. İhtiyaç halinde bir insanın; organının, sisteminin veya uzvunun v.b. her yönüyle aynısının laboratuvar ortamında üretilmesi veya soyu tükenmiş bir canlının yeniden üretimi veya soyunun son örneği bir canlı türünün devamı VDOİHİ’de verilen eşitlikler kullanılarak sağlanabilir. Biyolojik bir yapının laboratuvar ortamında üretimiyle, örneğin herhangi bir makinanın üretilmesinin İslam açısından aynı değerli olduğunu düşünüyorum. Bu yaradan’ın bize ulaşabilmemiz için verdiği bilgidir. Eğer ulaşılması istenmeseydi, bizim öyle bir imkanımızda olamazdı. Fakat bilginin, bizim ulaşabileceğimiz bilgi olması, yani gerçeğin bilgisi olması, her zaman ve her durumda uygulanabilir olacağı anlamına gelmez. Umarım yapmak ile yaratmak birbirine karıştırılmaz!

VDOİHİ’de hem sonsuz çalışma prensibine dayalı elektronik teknolojinin matematiksel yapısı hem de Telifli eserlerinde ve VDOİHİ’de, ilk defa yapay zeka çağının kapılarını aralayan çalışmalar yapılmıştır. VDOİHİ cilt 2.1.1’in giriş bölümünde yapay zeka ve çağının tanımı yapılarak, kütüphane ve referans bilgileriyle ilişkilendirilmiştir. Daha sonra VDOİHİ ve Telifli eserlerinde insanlığın gelişimini ivmelendirecek; yapay zeka görev kodları, verilerin analizleriyle ait olduğu disiplinin belirlenmesi, verinin analizinden verilen ve istenilenlerin belirlenmesi, değişken analizi, eksik değişkenlerin belirlenmesi, eksik değişkenlerin verilerinin üretimi, değişkenler arası eşitliklerin kurulması ve elde edilen bilgilerin sözel ifadeleriyle bilim ve teknoloji için gerekli bilgiyi üretebilen yazılımlar verilmiştir. Hem bu yazılımlarla hem de benzeri yazılımlarla, bilim insanları tarafından üretilmeyen bilgi ve teknolojilerin isteyen her kişi tarafından üretilebilir olması sağlanmıştır. Ayrıca kütüphane ve referans bilgilerinin üretiminde, olasılık dağılımları üzerinden çalışan makinaların bir olayın

tüm yönlerini (olasılıklarını) kullanmaları sağlanarak, tıpkı insan gibi düşünebilmesi sağlanmıştır. Böylece makinaların özgürce düşünebilmesinin önündeki engeller kaldırılmıştır. Gerçek yapay zeka pahalı deneylere ihtiyacı ortadan kaldırarak, insanlara yaradan'ın tanıdığı eşitliklerin (matematiksel eşitlik değil!), belirli insanlar tarafından saptırılarak, diğerlerinin eşitlik ve özgürlüklerinin gasp edilmesinin önünde güçlü bir engel teşkil edecektir. Bugüne kadar artificial intelligence çalışmalarıyla sadece ve sadece kütüphane bilgisinin bir kısmı üretilebildiği ve kütüphane bilgisi üretebilen teknoloji geliştirildiğinden, bunlar yapay zekanın öncü çalışmalarından öte geçip yapay zeka konumunda düşünülemez. Gerçek yapay zeka hem kütüphane hem de referans bilgisi üretebilir olması gerektiğinden; a) yazar tarafından doktora tez çalışması başta olmak üzere belirli çalışmalarında kütüphane bilgisinin ileri örnekleri başarıldığından, b) ilk defa VDOİHİ ve Telifli eserlerinde referans bilgisini üreten yazılımlar başarıldığından ve c) yapay zekanın gereksinim duyabileceği dijital teknoloji yerine, sonsuz çalışma prensibine dayalı elektronik teknolojisinin bilimsel-matematiksel yapısı yazar tarafından geliştirildiğinden, insanlığın bugüne kadar uyguladığı teamüller gereği adlandırmanın da Türkçe yapılması elzem ve adil bir zorunluluktur. Bu nedenle insan biyolojisinin ürünü olmayan zeka “yapay zeka” ve insan biyolojisinin ürünü olmayan zekayla insanlığın gelişiminin ivmelendirildiği zaman periyodu da “yapay zeka çağı” olarak adlandırılmalıdır.

Yazar tarafından VDOİHİ’de, Cebirden günümüze; a) bilimsel gelişim, olması gereken veya olabilecek gelişime göre düşük olduğundan, b) teorik çalışmaların omurgasının matematiğe terk edilmesi ve matematikçilerinde üzerlerine düşeni yeterince yerine getirememelerinden dolayı, c) yapay zeka karşısında buhrana düşülmesinin önüne geçilebilmesi ve d) kainatın en kompleks birimi olan insan beynine yakışır bilimsel gelişimin başarılabilmesi için, yasa/eşitliklerin, uyum ve genel yapıları, olasılık üzerinden belirlenmiştir.

Yazar tarafından VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dizilimli Simetrik Olasılık Cilt 2.2.1’de insanlığın bilimsel ve teknolojik gelişimini ivmelendirebilecek uyum çağının tanımı yapılarak, VDOİHİ’de ilk defa yasa/eşitliklerin, olasılık eşitlikleri üzerinden uyum yapıları verilmiştir.

Yazar tarafından VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Simetrik Olasılık Cilt 2.3.1’de insanlığın bilimsel ve teknolojik gelişimini ivmelendirebilecek genel çağın tanımı yapılarak, VDOİHİ’de yasa/eşitliklerin, olasılık eşitlikleri üzerinden genel yapıları verilmiştir.

Yazar tarafından VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Simetrik Bulunmama Olasılığı Cilt 2.3.2 insanlığın bilimsel ve teknolojik gelişimini ivmelendirebilecek dördüncü bir çağ olarak, gerçek zaman ufku ötesi çağı tanımlanmıştır. Bu çağın tanımlanmasında; Sertaç ÖZENLİ’nin İlmi Sohbetler eserinin R39-R40 sayfalarından yararlanılarak, kapak sayfasındaki ve T21-T22’inci sayfalarında verilen şuuruluğun ork or modelinin özetinin gösterildiği grafikten yararlanılmıştır. Doğada rastlanmayan fakat kuantum sayılarıyla ulaşılabilen atomlara ait bilgilerimiz, gerçek zaman ufku ötesi bilgilerimizin, gerçekleştirilmiş olanlarıdır. Gerçekleştirilebilecek olanlarından biri ise kainatın herhangi bir

yerinde yaşamını sürdüren herhangi bir canlıdan henüz haberdar bile olmadan, var olan genetik bilgi ve matematiğimizle ulaşılabilir olan tüm bilgilerine ulaşılmasıdır.

Özellikle; sonsuz çalışma prensibine dayalı elektronik teknolojisi, yapay zeka, gerçek zaman ufku ötesi bilgilerimizin temel eşitliklerinin verilebilmesi, başlangıçta kurucusu tarafından yapılabileceklerin ilerleyen zamanlarda o disiplinin cazibe merkezine dönüşerek insan kaynaklarının israfının önlenmesi nedenleriyle ve en önemlisi Yaradan'ın bizlere verdiği adaletin insan tarafından saptırılamaması için; VDOİHİ, bugüne kadarki eserlerle kıyaslanamayacak ölçüde daha kapsamlı verilmeye çalışılmaktadır.

Yazar VDOİHİ'nin ciltlerini, Türkçe ve insanlığın tek evrensel dili olan matematik-mantık dillerinde yazmaktadır. Yazar eserlerinden insanlığın aynı niteliklerle yararlanabilmesi için her kişiye eşit mesafede ve anlaşılabilirlikte olan günümüze kadar insanlığın geliştirebildiği yegane evrensel dilde VDOİHİ ciltlerini yazmaya devam edecektir.

*VDOİHİ ve telifli eserleri ile bitirilen veya sonu başlatılanlar;*

- ✓ VDOİHİ'de dillerin matematiği kurularak, o dil için kendini mihenk taşı gören zavallılar sınıfı
- ✓ Baskın dillerin, dünya dili olabilmesi
- ✓ VDOİHİ ve Telifli eserlerinde verilen eşitlik ve yasa belirleme yazılımlarıyla, gerçeklerden uzak ve ufuksuz sözde akademisyenlere insanlığın tahammülü
- ✓ Bilim ve teknolojide sermayeye olan bağımlılık
- ✓ Sermaye birikiminin gücü
- ✓ Primitif ölçme ve değerlendirme

*Sanırım bilgi ve teknolojiye kaderimiz veriyle ilişkilendirilmiş.*



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GÜLDÜNYA

## Simge ve Kısaltmalar

$n$ : olay sayısı

$n$ : bağımlı olay sayısı

$m$ : bağımsız olay sayısı

$n_i$ : dağılımın ilk bağımlı durumun bulunabileceği olayın, dağılımın ilk olayından itibaren sırası

$n_{ik}$ : simetride, simetrinin aranacağı durumdan önce bulunan bağımlı durumun ( $j_{ik}$ 'da bulunan durum), bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların, ilk olaydan itibaren sırası veya simetrinin iki bağımlı durum arasında bağımsız durumun bulunduğu bağımsız durumdan önceki bağımlı durumun, bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların ilk olaydan itibaren sırası

$n_s$ : simetrinin aranacağı bağımlı durumunun (simetrinin sonuncu bağımlı durumu) bulunabileceği olayların ilk olaya göre sırası

$n_{sa}$ : simetrinin aranacağı bağımlı durumunun bulunabileceği olayların ilk olaya göre sırası veya bağımlı olasılıklı dağılımların  $j^{sa}$ 'da bulunan durumun (simetrinin  $j_{sa}$ 'daki bağımlı durum) bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların, dağılımın ilk olayından itibaren sırası

$l$ : bağımsız durum sayısı

$l$ : simetrinin bağımsız durum sayısı

$ll$ : simetrinin bağımlı durumlarından önce bulunan bağımsız durum sayısı

$l$ : simetrinin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

$lk$ : simetrinin bağımlı durumları arasındaki bağımsız durumların sayısı

$j$ : son olaydan/(alt olay) ilk olaya doğru aranılan olayın sırası

$j_i$ : simetrinin son bağımlı durumunun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası

$j_{sa}^i$ : simetriyi oluşturan bağımlı durumlar arasında simetrinin son bağımlı durumunun bulunduğu olayın, simetrinin son olayından itibaren sırası ( $j_{sa}^i = s$ )

$j_{ik}$ : simetrinin ikinci olayındaki durumun, gelebileceği olasılık dağılımlarındaki olayın sırası (son olaydan ilk olaya doğru) veya simetride, simetrinin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası veya simetrinin iki bağımlı durum arasında bağımsız durumun bulunduğu bağımsız durumdan önceki bağımlı durumun bağımlı olasılıklı dağılımlarda bulunabileceği olayların son olaydan itibaren sırası

$j_{sa}^{ik}$ :  $j_{ik}$ 'da bulunan durumun simetriyi oluşturan bağımlı durumlar arasında bulunduğu olayın son olaydan itibaren sırası

$J_{X_{ik}}$ : simetrisinin ikinci olayındaki durumun, olasılık dağılımlarının son olaydan itibaren bulunabileceği olayın sırası

$j_s$ : simetrisinin ilk bağımlı durumunun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası

$j_{sa}^s$ : simetriyi oluşturan bağımlı durumlar arasında simetrisinin ilk bağımlı durumunun bulunduğu olayın, simetrisinin son olayından itibaren sırası ( $j_{sa}^s = 1$ )

$j_{sa}$ : simetriyi oluşturan bağımlı durumlar arasında simetrisinin aranacağı durumun bulunduğu olayın, simetrisinin son olayından itibaren sırası

$j^{sa}$ :  $j_{sa}$ 'da bulunan durumun bağımlı olasılıklı dağılımda bulunduğu olayın son olaydan itibaren sırası

$D$ : bağımlı durum sayısı

$D_i$ : olayın durum sayısı

$s$ : simetrisinin bağımlı durum sayısı

$s$ : simetrik durum sayısı. Simetrisinin bağımlı ve bağımsız durum sayısı

$n_s$ : simetrisinin bağımlı olay sayısı

$m_I$ : simetrisinin bağımsız olay sayısı

$d$ : seçim içeriği durum sayısı

$m$ : olasılık

$M$ : olasılık dağılım sayısı

$U$ : uyum eşitliği

$u$ : uyum derecesi

$s_i$ : olasılık dağılımı

$S$ : simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu simetrik olasılık

$S^{IS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk simetrik olasılık

$S^{ISS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık

$S^{ISO}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün olmayan simetrik olasılık

$S^{DST}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu tek kalan simetrik olasılık

$S^{DSS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu tek kalan düzgün simetrik olasılık

$S^{DOS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu tek kalan düzgün olmayan simetrik olasılık

$S^{DS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu kalan simetrik olasılık

$S^{DSS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu kalan düzgün simetrik olasılık

$S^{DOS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu kalan düzgün olmayan simetrik olasılık

$S^{DSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu toplam düzgün simetrik olasılık

$S^{DOSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu toplam düzgün olmayan simetrik olasılık

$S_{j_s, j_{ik}, j^{sa}}$ : simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i, j_s, j_{ik}, j^{sa}}$ : düzgün ve düzgün olmayan simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_s, j_{ik}, j_i}$ : simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i, j_s, j_{ik}, j_i}$ : düzgün ve düzgün olmayan simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{D=n}$ : bağımlı olay sayısı bağımlı durum sayısına eşit bağımlı olasılıklı “farklı dizilimli” dağılımlarda simetrik olasılık

$S_{D>n}$ : bağımlı olay sayısı bağımlı durum sayısından büyük bağımlı olasılıklı “farklı dizilimli” dağılımlarda simetrik olasılık

$D=n < n S \equiv S$ : simetri bağımlı durumlardan oluştuğunda, bağımlı ve bir bağımsız olasılıklı dağılımlarda simetrik olasılık

$S_0$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız simetrik olasılık

$S_0^{IS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk simetrik olasılık

$S_0^{ISS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık

$S_0^{ISO}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün olmayan simetrik olasılık

$S_0^{DST}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız tek kalan simetrik olasılık

$S_0^{DSS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız tek kalan düzgün simetrik olasılık

$S_0^{DOST}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız tek kalan düzgün olmayan simetrik olasılık

$S_0^{DS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız kalan simetrik olasılık

$S_0^{DSS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız kalan düzgün simetrik olasılık

$S_0^{DOS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız kalan düzgün olmayan simetrik olasılık

$S_0^{DSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız toplam düzgün simetrik olasılık

$S_0^{DOSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız toplam düzgün olmayan simetrik olasılık

$S_D$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı simetrik olasılık

$S_D^{IS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk simetrik olasılık

$S_D^{ISS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık

$S_D^{ISO}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün olmayan simetrik olasılık

$S_D^{DST}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı tek kalan simetrik olasılık

$S_D^{DSS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı tek kalan düzgün simetrik olasılık

$S_D^{DOS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı tek kalan düzgün olmayan simetrik olasılık

$S_D^{DS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı kalan simetrik olasılık

$S_D^{DSS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı kalan düzgün simetrik olasılık

$S_D^{DOS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı kalan düzgün olmayan simetrik olasılık

$S_D^{DSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı toplam düzgün simetrik olasılık

$S_D^{DOSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı toplam düzgün olmayan simetrik olasılık

${}_0S$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu simetrik olasılık

${}_0S^{IS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk simetrik olasılık

${}_0S^{ISS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık

${}_0S^{ISO}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün olmayan simetrik olasılık

${}_0S^{DST}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu tek kalan simetrik olasılık

${}_0S^{DSS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu tek kalan düzgün simetrik olasılık

${}_0S^{DOS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu tek kalan düzgün olmayan simetrik olasılık

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${}_0S^{DOS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu kalan düzgün olmayan simetrik olasılık

${}_0S^{DOSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu toplam düzgün simetrik olasılık

















veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı kalan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı kalan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı kalan simetrik olasılık

${}^0S_D^{DSS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı kalan düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı kalan düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı kalan düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı kalan düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı kalan düzgün simetrik olasılık

${}^0S_D^{DOS}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı kalan düzgün olmayan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı kalan düzgün olmayan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı kalan düzgün olmayan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı kalan düzgün olmayan simetrik olasılık

${}^0S_D^{DSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı toplam düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı toplam düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı toplam düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı toplam düzgün simetrik olasılık

${}^0S_D^{DOSD}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı toplam düzgün olmayan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı toplam düzgün olmayan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı toplam düzgün olmayan simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı toplam düzgün olmayan simetrik olasılık

$S_{j_i}$ : simetrimin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{2,j_i}$ : iki durumlu simetrimin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_i}$ : düzgün ve düzgün olmayan simetrisinin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,2,j_i}$ : düzgün ve düzgün olmayan iki durumlu simetrisinin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_s,j_i}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_s,j_i}$ : düzgün ve düzgün olmayan simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,2,j_s,j_i}$ : düzgün ve düzgün olmayan iki durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_s,j^{sa}}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_s,j^{sa}}$ : düzgün ve düzgün olmayan simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_{ik},j_i}$ : simetrisinin her durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_{ik},j_i}$ : düzgün ve düzgün olmayan simetrisinin her durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j^{sa}\leftarrow}$ : simetrisinin durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j^{sa}DSD}$ : simetrisinin durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{artj^{sa}\leftarrow}$ : simetrisinin art arda durumlarına bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,artj^{sa}\leftarrow}$ : simetrisinin ilk durumuna göre herhangi art arda iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_i\leftarrow}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_i}^{DSD}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{j_s,j^{sa}\leftarrow}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j^{sa}DSD}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{j_{ik},j^{sa}\leftarrow}$ : simetrisinin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_{ik},j^{sa}DSD}$ : simetrisinin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{j_s,j_{ik},j^{sa}\leftarrow}$ : simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s, j_{ik}, j^{sa}}^{DSD}$ : simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{\leftarrow j_s, j_{ik}, j^{sa} \leftarrow}$ : simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s, j_{ik}, j_i \leftarrow}$ : simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s, j_{ik}, j_i}^{DSD}$ : simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{\leftarrow j_s, j_{ik}, j_i \leftarrow}$ : simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j^{sa} \rightarrow}$ : simetrinin durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{art j^{sa} \rightarrow}$ : simetrinin art arda durumlarına bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, art j^{sa} \rightarrow}$ : simetrinin ilk durumuna göre herhangi art arda iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, j_i \Rightarrow}$ : simetrinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, j^{sa} \Rightarrow}$ : simetrinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_{ik}, j^{sa} \Rightarrow}$ : simetrinin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, j_{ik}, j^{sa} \Rightarrow}$ : simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, j_{ik}, j^{sa}}^{DOSD}$ : simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{\Rightarrow j_s, j_{ik}, j^{sa} \Rightarrow}$ : simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, j_{ik}, j_i \Rightarrow}$ : simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s, j_{ik}, j_i}^{DOSD}$ : simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{\Rightarrow j_s, j_{ik}, j_i \Rightarrow}$ : simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j^{sa} \leftrightarrow}$ : simetrinin durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j^{sa}}^{DOSD}$ : simetrisinin durumuna bağımlı bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{artj^{sa}} \Leftrightarrow$ : simetrisinin art arda durumlarına bağımlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s, artj^{sa}} \Leftrightarrow$ : simetrisinin ilk durumuna göre herhangi art arda iki durumuna bağımlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s, j_t} \Leftrightarrow$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s, j_t}^{DOSD}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{j_s, j^{sa}} \Leftrightarrow$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s, j^{sa}}^{DOSD}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{j_{ik}, j^{sa}} \Leftrightarrow$ : simetrisinin herhangi iki durumuna bağımlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_{ik}, j^{sa}}^{DOSD}$ : simetrisinin herhangi iki durumuna bağımlı bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{BBj_i}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımlı durumun simetrisinin son durumuna bağımlı simetrik olasılık

$S_{BBj^{sa}} \Leftarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin bir bağımlı durumuna bağımlı simetrik bitişik olasılık

$S_{BBj_{ik}, j^{sa}} \Leftarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin iki bağımlı durumuna bağımlı simetrik bitişik olasılık

$S_{BBj_s, j^{sa}} \Leftarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi bir bağımlı durumuna bağımlı simetrik bitişik olasılık

$S_{BBj_s, j_t} \Leftarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve son bağımlı durumuna bağımlı simetrik bitişik olasılık

$S_{BBj_s, j_{ik}, j_t} \Leftarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi iki bağımlı durumuna bağımlı simetrik bitişik olasılık

$S_{BBj_s, j_{ik}, j_t} \Leftarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk herhangi bir ve son bağımlı durumuna bağımlı simetrik bitişik olasılık

$S_{BBj^{sa}} \Rightarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin bir bağımlı durumuna bağımlı simetrik ayırım olasılığı

$S_{BBj_{ik}, j^{sa}} \Rightarrow$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin art arda iki bağımlı durumuna bağımlı simetrik ayırım olasılığı



$S_{BBj_s, j^{sa} \Rightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi bir bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_s, j_i \Rightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve son bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_{ik}, j_i, 2}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın simetrisinin iki bağımlı durumunun simetrik olasılığı

$S_{BBj_s, j_{ik}, j^{sa} \Rightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi iki bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_s, j_{ik}, j_i \Rightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk herhangi bir ve son bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BB(j_{ik})_z, (j_i)_z}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın simetrisinin durumlarının bulunabileceği olaylara göre simetrik olasılık

$S^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu simetrik bulunmama olasılığı

$S^{IS, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk simetrik bulunmama olasılığı

$S^{ISS, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı

$S^{ISO, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün olmayan simetrik bulunmama olasılığı

$S^{DST, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu tek kalan simetrik bulunmama olasılığı

$S^{DSST, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu tek kalan düzgün simetrik bulunmama olasılığı

$S^{DOST, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu tek kalan düzgün olmayan simetrik bulunmama olasılığı

$S^{DS, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu kalan simetrik bulunmama olasılığı

$S^{DSS, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu kalan düzgün simetrik bulunmama olasılığı

$S^{DOS, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu kalan düzgün olmayan simetrik bulunmama olasılığı

$S^{DSD, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu toplam düzgün simetrik bulunmama olasılığı

$S^{DOSD, B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu toplam düzgün olmayan simetrik bulunmama olasılığı

$S_0^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız simetrik bulunmama olasılığı

$S_0^{iS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk simetrik bulunmama olasılığı

$S_0^{iSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

$S_0^{iSO,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün olmayan simetrik bulunmama olasılığı

$S_0^{DST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız tek kalan simetrik bulunmama olasılığı

$S_0^{DSST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız tek kalan düzgün simetrik bulunmama olasılığı

$S_0^{DOST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız tek kalan düzgün olmayan simetrik bulunmama olasılığı

$S_0^{DS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız kalan simetrik bulunmama olasılığı

$S_0^{DSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız kalan düzgün simetrik bulunmama olasılığı

$S_0^{DOS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız kalan düzgün olmayan simetrik bulunmama olasılığı

$S_0^{DSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız toplam düzgün simetrik bulunmama olasılığı

$S_0^{DOSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız toplam düzgün olmayan simetrik bulunmama olasılığı

$S_D^B$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumun bağımlı simetrik bulunmama olasılığı

$S_D^{iS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk simetrik bulunmama olasılığı

$S_D^{iSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

$S_D^{iSO,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün olmayan simetrik bulunmama olasılığı

$S_D^{DST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı tek kalan simetrik bulunmama olasılığı

$S_D^{DSST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı tek kalan düzgün simetrik bulunmama olasılığı

$S_D^{DOST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı tek kalan düzgün olmayan simetrik bulunmama olasılığı

$S_D^{DS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı kalan simetrik bulunmama olasılığı

$S_D^{DSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı kalan düzgün simetrik bulunmama olasılığı

$S_D^{DOS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı kalan düzgün olmayan simetrik bulunmama olasılığı

$S_D^{DSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı

$S_D^{DOSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı toplam düzgün olmayan simetrik bulunmama olasılığı

$S^B$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu simetrik bulunmama olasılığı

$S^{IS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk simetrik bulunmama olasılığı

$S^{ISS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı

$S^{ISO,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün olmayan simetrik bulunmama olasılığı

$S^{DST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu tek kalan simetrik bulunmama olasılığı

$S^{DSST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu tek kalan düzgün simetrik bulunmama olasılığı

$S^{DOST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu tek kalan düzgün olmayan simetrik bulunmama olasılığı

$S^{DS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu kalan simetrik bulunmama olasılığı

$S^{DSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu kalan düzgün simetrik bulunmama olasılığı

$S^{DOS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu kalan düzgün olmayan simetrik bulunmama olasılığı

$S^{DSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu toplam düzgün simetrik bulunmama olasılığı

$S^{DOSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu toplam düzgün olmayan simetrik bulunmama olasılığı

$S_0^B$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız simetrik bulunmama olasılığı

$S_0^{IS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk simetrik bulunmama olasılığı

$S_0^{ISS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

$S_0^{ISO,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün olmayan simetrik bulunmama olasılığı

$S_0^{DST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız tek kalan simetrik bulunmama olasılığı

bb

${}_0S_0^{DSST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız tek kalan düzgün simetrik bulunmama olasılığı

${}_0S_0^{DOST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız tek kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S_0^{DS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız kalan simetrik bulunmama olasılığı

${}_0S_0^{DSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız kalan düzgün simetrik bulunmama olasılığı

${}_0S_0^{DOS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S_0^{DSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız toplam düzgün simetrik bulunmama olasılığı

${}_0S_0^{DOSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız toplam düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^B$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı simetrik bulunmama olasılığı

${}_0S_D^{IS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk simetrik bulunmama olasılığı

${}_0S_D^{ISS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu

bağımlı ilk düzgün simetrik bulunmama olasılığı

${}_0S_D^{ISO,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{DST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı tek kalan simetrik bulunmama olasılığı

${}_0S_D^{DSST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı tek kalan düzgün simetrik bulunmama olasılığı

${}_0S_D^{DOST,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı tek kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{DS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı kalan simetrik bulunmama olasılığı

${}_0S_D^{DSS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı kalan düzgün simetrik bulunmama olasılığı

${}_0S_D^{DOS,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{DSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı

${}_0S_D^{DOSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı

















bağımlı-bağımsız durumlu bağımlı kalan düzgün olmayan simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı-bağımsız durumlu bağımlı kalan düzgün olmayan simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız-bağımsız durumlu bağımlı kalan düzgün olmayan simetrik bulunmama olasılığı

${}^0S_D^{DSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir bağımlı-bir bağımsız durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı-bir bağımsız durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bir bağımlı-bağımsız durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı-bağımsız durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı-bağımsız durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız-bağımsız durumlu bağımlı toplam düzgün simetrik bulunmama olasılığı

${}^0S_D^{DOSD,B}$  : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir bağımlı-bir bağımsız durumlu bağımlı toplam düzgün olmayan simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı-bağımsız durumlu bağımlı toplam düzgün olmayan simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bir bağımlı-bağımsız durumlu bağımlı toplam düzgün olmayan simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı-bağımsız durumlu bağımlı toplam düzgün olmayan

simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız-bağımsız durumlu bağımlı toplam düzgün olmayan simetrik bulunmama olasılığı

${}^1S_1^1$ : bir olay için bir durumun tek simetrik olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bir bağımlı durumun bağımlı tek simetrik olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bir olay için bir bağımlı durumun tek simetrik olasılığı

${}^1S_1^{1,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir olay için bir bağımlı durumun tek simetrik bulunmama olasılığı

${}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir dizilimin bağımlı tek simetrik olasılık

${}^1D_1^1$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir olay için bağımlı tek simetrik olasılık

${}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir olay için bağımsız tek simetrik olasılık

${}^1S_1^{1,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir olay için bağımsız tek simetrik bulunmama olasılığı

${}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir dizilimin bağımsız tek simetrik olasılığı

${}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bir bağımlı durumun bağımsız tek simetrik olasılığı

${}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli dağılımın başladığı duruma göre tek simetrik olasılık

$S_T$ : toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı durumlu toplam simetrik olasılık

${}^1S$ : tek simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı durumlu tek simetrik olasılık

${}^1S^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımlı durumlu tek simetrik bulunmama olasılığı

${}_0S^{BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte simetrik olasılık

${}_0S^{IS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte ilk simetrik olasılık

${}_0S^{DST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte tek kalan simetrik olasılık

${}_0S^{DS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte kalan simetrik olasılık

${}_0S^{ISS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte ilk düzgün simetrik olasılık

${}_0S^{DSST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte tek kalan düzgün simetrik olasılık

${}_0S^{DSS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte kalan düzgün simetrik olasılık

${}_0S^{DSD,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte toplam düzgün simetrik olasılık

${}_0S^{ISO,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte ilk düzgün olmayan simetrik olasılık

${}_0S^{DOST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte tek kalan düzgün olmayan simetrik olasılık

${}_0S^{DOS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte kalan düzgün olmayan simetrik olasılık

${}_0S^{DOSD,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli birlikte toplam düzgün olmayan simetrik olasılık

${}_0S_0^{BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte simetrik olasılık

${}_0S_0^{IS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte ilk simetrik olasılık

${}_0S_0^{DST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte tek kalan simetrik olasılık

${}_0S_0^{DS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte kalan simetrik olasılık

${}_0S_0^{ISS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte ilk düzgün simetrik olasılık

${}_0S_0^{DSST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte tek kalan düzgün simetrik olasılık

${}_0S_0^{DSS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte kalan düzgün simetrik olasılık

${}_0S_0^{DSD,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizimli bağımsız birlikte toplam düzgün simetrik olasılık

${}_0S_0^{ISO,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte ilk düzgün olmayan simetrik olasılık

${}_0S_0^{DOST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte tek kalan düzgün olmayan simetrik olasılık

${}_0S_0^{DOS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte kalan düzgün olmayan simetrik olasılık

${}_0S_0^{DOSD,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte toplam düzgün olmayan simetrik olasılık

${}_0S_D^{BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte simetrik olasılık

${}_0S_D^{IS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk simetrik olasılık

${}_0S_D^{DST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte tek kalan simetrik olasılık

${}_0S_D^{DS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte kalan simetrik olasılık

${}_0S_D^{ISS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk düzgün simetrik olasılık

${}_0S_D^{DSST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte tek kalan düzgün simetrik olasılık

${}_0S_D^{DSS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte kalan düzgün simetrik olasılık

${}_0S_D^{DSD,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte toplam düzgün simetrik olasılık

${}_0S_D^{ISO,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk düzgün olmayan simetrik olasılık

${}_0S_D^{DOST,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte tek kalan düzgün olmayan simetrik olasılık

${}_0S_D^{DOS,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte kalan düzgün olmayan simetrik olasılık

${}_0S_D^{DOSD,BS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte toplam düzgün olmayan simetrik olasılık

$S_{0,T}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız toplam simetrik olasılık

$S_{D,T}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı toplam simetrik olasılık

${}_0S_T$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu toplam simetrik olasılık

${}_0S_{0,T}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız toplam simetrik olasılık

${}_0S_{D,T}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı toplam simetrik olasılık

${}_0S_T$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu toplam simetrik olasılık veya bağımlı ve

bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu toplam simetrik olasılık

${}^0S_{0,T}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız toplam simetrik olasılık eşitliği veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız toplam simetrik olasılık

${}^0S_{D,T}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı toplam simetrik olasılık

${}^0S^{BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte simetrik bulunmama olasılığı

${}^0S^{IS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk simetrik bulunmama olasılığı

${}^0S^{DST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte tek kalan simetrik bulunmama olasılığı

${}^0S^{DS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte kalan simetrik bulunmama olasılığı

${}^0S^{ISS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk düzgün simetrik bulunmama olasılığı

${}^0S^{DSST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte tek kalan düzgün simetrik bulunmama olasılığı

${}^0S^{DSS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte kalan düzgün simetrik bulunmama olasılığı

${}^0S^{DSD,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte toplam düzgün simetrik bulunmama olasılığı

${}^0S^{ISO,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk düzgün olmayan simetrik bulunmama olasılığı

${}^0S^{DOST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte tek kalan düzgün olmayan simetrik bulunmama olasılığı

${}^0S^{DOS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S^{DOSD,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte toplam düzgün olmayan simetrik bulunmama olasılığı

${}_0S_0^{BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte simetrik bulunmama olasılığı

${}_0S_0^{IS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte ilk simetrik bulunmama olasılığı

${}_0S_0^{DST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte tek kalan simetrik bulunmama olasılığı

${}_0S_0^{DS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte kalan simetrik bulunmama olasılığı

${}_0S_0^{ISS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte ilk düzgün simetrik bulunmama olasılığı

${}_0S_0^{DSST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte tek kalan düzgün simetrik bulunmama olasılığı

${}_0S_0^{DSS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte kalan düzgün simetrik bulunmama olasılığı

${}_0S_0^{DSD,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte toplam düzgün simetrik bulunmama olasılığı

${}_0S_0^{ISO,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte ilk düzgün olmayan simetrik bulunmama olasılığı

${}_0S_0^{DOST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte tek kalan düzgün olmayan simetrik bulunmama olasılığı

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${}_0S_0^{DOSD,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte toplam düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte simetrik bulunmama olasılığı

${}_0S_D^{IS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk simetrik bulunmama olasılığı

${}_0S_D^{DST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte tek kalan simetrik bulunmama olasılığı

${}_0S_D^{DS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte kalan simetrik bulunmama olasılığı

${}_0S_D^{ISS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk düzgün simetrik bulunmama olasılığı

${}_0S_D^{DSST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte tek kalan düzgün simetrik bulunmama olasılığı

${}_0S_D^{DSS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte kalan düzgün simetrik bulunmama olasılığı

${}_0S_D^{DSD,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte



toplam düzgün simetrik bulunmama olasılığı

${}_0S_D^{ISO,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{DOST,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte tek kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{DOS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte kalan düzgün olmayan simetrik bulunmama olasılığı

${}_0S_D^{DOSD,BS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte toplam düzgün olmayan simetrik bulunmama olasılığı

$S_T^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu toplam simetrik bulunmama olasılığı

$S_{0,T}^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız toplam simetrik bulunmama olasılığı

$S_{D,T}^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı toplam simetrik bulunmama olasılığı

${}_0S_T^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu toplam simetrik bulunmama olasılığı

${}_0S_{0,T}^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız toplam simetrik bulunmama olasılığı

${}_0S_{D,T}^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu

bağımlı toplam simetrik bulunmama olasılığı

${}_0S_T^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu toplam simetrik bulunmama olasılığı

${}_0S_{0,T}^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı

${}_0S_{D,T}^B$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı toplam

simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı

GÜLDÜNYA

## BAĞIMLI VE BİR BAĞIMSIZ OLASILIKLI FARKLI DİZİLİMLİ DAĞILIMLAR

# D

### Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimli Dağılımlar

- **Toplam Düzgün Olmayan Simetri**
- **Bağımlı-Bir Bağımsız Durumlu  
Toplam Düzgün Olmayan Simetri**

Önceki bölümlerde durum sayısı olay sayısına eşit veya büyük olan bağımlı olasılıklı dağılımların olasılıkları incelendi. Bu bölümde durum sayısı olay sayısından küçük bağımlı olasılık ( $D < n$ ) veya bağımlı ve bir bağımsız durumlu dağılımın olasılıkları incelenecektir. Bağımlı durum sayısı bağımlı olay sayısı eşit, bağımlı durum sayısı bağımlı olay sayısından büyük farklı dizilimli veya farklı dizilimsiz bağımlı durum sayısının bağımlı olay sayısından büyük her bir dağılımına bağımsız olasılıklı seçimle belirlenen bir bağımsız durumun dağılımıyla, bağımlı ve bir bağımsız

olasılıklı dağılımlar elde edilebilir. Bu dağılımlar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli veya bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlardır. Durum sayısı olay sayısından küçük olduğunda yapılacak seçimlerde  $n - D$  kadar olaya durum belirlenemez. Yapılacak seçimlerde farklı dizilimli ve farklı dizilimsiz dağılımlarda durum belirlenmeyen olayların durumları sıfır (0) ile gösterilebilir. Bir olasılık dağılımında  $n - D$  kadar sıfırın veya aynı bağımsız durumun olması, bağımsız olasılıklı seçimlerde, bir dağılımın birden fazla olayında aynı durum belirlenebilmesiyle ilgilidir.

Bu bölümde, yapılacak her bir seçimde bir durumun belirlenebileceği *bağımlı durum sayısı bağımlı olay sayısına eşit* ( $D = n$  ve " $n$ : bağımlı olay sayısı") seçimlerle elde edilebilecek, bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlar incelenecektir. Bu dağılımlarda bulunabilecek simetrik durumlar, dağılımın başladığı durumlara göre ayrı ayrı incelenecektir. Bağımsız durumla başlayan dağılımlar, bağımsız durumdan/lardan sonraki ilk bağımlı durumuna (olasılık dağılımında soldan sağa ilk bağımlı durum) göre sınıflandırılacaktır. Simetri bağımsız durumla başladığında, aynı yöntemle simetrisinin başladığı bağımlı durum belirlenir.

Olasılık dağılımları; simetrisinin başladığı bağımlı durumla başlayan dağılımlar, simetride bulunmayan bir bağımlı durumla başlayan dağılımlar ve simetride bulunmayan bağımlı durumlarla başlayan dağılımlar olarak sınıflandırılır. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, bağımlı olasılıklı dağılımlarda olduğu gibi simetride

bulunan bağımlı durumlarla başlayan dağılımlardan sadece simetrisinin ilk bağımlı durumuyla başlayan dağılımlarda simetrik durumlar bulunabilir.

Olasılık dağılımları ilk bağımlı durumuna göre sınıflandırılacağından, aynı bağımlı durumla başlayan olasılık dağılımları, iki farklı dağılım türünden oluşabilir. Bu dağılım türleri, bağımsız durumla başlayan dağılımlar ve bağımlı durumla başlayan dağılımlardır. Bağımsız durumla başlayan dağılımların ilk bağımlı durumu, simetrisinin ilk bağımlı durumu olan dağılımlar, simetrisinin ilk bağımlı durumuyla başlayan dağılımlar olarak alınır. Eğer bağımsız durumla başlayan dağılımların ilk bağımlı durumu, simetride bulunmayan aynı bir bağımlı durum olan dağılımlar, simetride bulunmayan bir bağımlı durumuyla başlayan dağılımlar olarak alınır. Yada bağımsız durumla başlayan dağılımların ilk bağımlı durumu, simetride bulunmayan bağımlı durumlar olan dağılımların tamamı, simetride bulunmayan bağımlı durumlarla başlayan dağılımlar olarak alınır. Bağımlı durumla başlayan dağılımlardan, bu ilk bağımlı durum, simetrisinin ilk bağımlı durumu olan dağılımlar, simetrisinin ilk bağımlı durumuyla başlayan dağılımlara dahil edilir. Eğer olasılık dağılımlarından, ilk bağımlı durumu, simetride bulunmayan aynı bağımlı durum olan dağılımlar, simetride bulunmayan bir bağımlı durumla başlayan dağılımlara dahil edilir. Eğer olasılık dağılımlarından, ilk bağımlı durumu, simetride bulunmayan bağımlı durumlar olan dağılımların tümü, simetride bulunmayan bağımlı durumlarla başlayan dağılımlara dahil edilir. Bu iki dağılım türü ilk bağımlı durumlarına göre aynı bağımlı durumlu dağılımları oluşturur. İki dağılım türü de aynı bağımlı durumla başlayan dağılımlar altında hem birlikte hem de ayrı ayrı incelenecektir.

Simetri, bağımlı ve/veya bağımsız durumlarının bulunabileceği sıralamaya göre sınıflandırılacaktır. Simetri durumlarına göre; bağımlı durumla başlayıp bağımlı durumla biten (bağımlı-bağımlı veya sadece bağımlı durumlu), bağımsız durumla başlayıp bağımlı durumla biten (bağımsız-bağımlı), bir bağımlı durumla başlayıp bir bağımsız durumla biten (bir bağımlı-bir bağımsız), bağımlı durumla başlayıp bir bağımsız durumla biten (bağımlı-bir bağımsız), bir bağımlı durumla başlayıp bağımsız durumla biten (bir bağımlı-bağımsız), bağımlı durumla başlayıp bağımsız durumla biten (bağımlı-bağımsız) ve bağımsız durumla başlayıp bağımlı durumları bulunup bağımsız durumla biten (bağımsız-bağımlı-bağımsız) yedi farklı simetri incelemesi ayrı ayrı yapılacaktır.

Simetri, durumlarının bulunduğu sıralamaya göre sınıflandırılarak, hem olasılık dağılımlarının başladığı durumlara göre hem de bunların bağımsız durumla başlayan dağılımları ve bağımlı durumla başlayan dağılımlarına göre; simetrik, düzgün simetrik ve düzgün olmayan simetrik olasılıklar olarak incelenecektir. Bu simetrik olasılıkların inceleneceği ciltlerde birlikte simetrik olasılık eşitlikleri de verilecektir.

Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardaki, simetrik ve düzgün simetrik olasılık eşitlikleri hem olasılık dağılım tablo değerlerinden hem de teorik yöntemle çıkarılabilecektir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardaki, düzgün olmayan simetrik olasılıklar ise sadece teorik yöntemlerle çıkarılacaktır. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımların inceleneceği ciltlerde, bulunmama olasılıklarının sadece çıkarılabileceği eşitlikler verilecektir.

## OLASILIK DAĞILIMLARINDA DÜZGÜN OLMAYAN SİMETRİK OLASILIK

Simetrik olasılık; düzgün simetrik durumların bulunduğu dağılımlar ile düzgün olmayan simetrik durumların bulunduğu dağılımların toplamı veya düzgün simetrik olasılık ile düzgün olmayan simetrik olasılıkların toplamıdır. Düzgün simetrik olasılık, olasılık dağılımlarında simetrisinin durumları arasında farklı bir durum bulunmayan ve aynı sayıda bağımsız durum bulunan dağılımların sayısına veya simetrisinin durumlarının aynı sıralama sayısında bulunabildiği dağılımların sayısına düzgün simetrik olasılık denir. Simetri, bağımlı ve bağımsız durumlardan oluşabileceğinden, hem simetri hem de düzgün simetrisinin bulunduğu dağılımlarda bağımsız durumun dağılımdaki sırası yerine, simetrideki sayısı dikkate alınır. Olasılık dağılımında simetrisinin durumları arasında, simetride bulunmayan bir durum bulunduğu dağılımlara veya simetrisinin durumlarının aynı sıralama sayısında bulunamadığı dağılımlar, düzgün olmayan simetrisinin bulunduğu dağılımlardır. Bu dağılımların sayısına düzgün olmayan simetrik olasılık denir.

Bu ciltlerde toplam düzgün olmayan simetrik olasılığın eşitlikleri teorik yöntemle çıkarılacaktır. Düzgün olmayan simetrik olasılık eşitlikleri, aynı şartlı simetrik olasılıktan, aynı şartı düzgün simetrik olasılığın farkından teorik yöntemle elde edilebilir. Bu nedenle toplam düzgün olmayan simetrik olasılık eşitlikleri de aynı şartlı simetrik olasılıktan, aynı şartlı toplam düzgün simetrik olasılığın farkından teorik yöntemle elde edilebilir. Ayrıca toplam düzgün olmayan simetrik olasılıklar; aynı şartlı ilk düzgün olmayan simetrik olasılık ile aynı şartlı kalan düzgün olmayan simetrik olasılıkların toplamından teorik yöntemle de elde edilebilir.

Bağımsız olasılıklı durumla başlayan dağılımlardaki düzgün olmayan simetrik olasılığın sabit değişkenli işlem uzunluklu eşitliği, aynı şartlı toplam düzgün olmayan simetrik olasılığın sabit değişkenli işlem uzunluklu eşitliğinde  $n_i$  üzerinden toplam alımında  $n$  yerine  $n - 1$  yazılmasıyla da teorik yöntemle elde edilebilecektir. Bağımlı olasılıklı durumla başlayan dağılımlardaki düzgün olmayan simetrik olasılığın eşitliği, aynı şartlı toplam düzgün olmayan simetrik olasılık eşitliğinden, aynı şartlı bağımsız durumlarla başlayan dağılımların toplam düzgün olmayan simetrik olasılık eşitliğinin farkından teorik yöntemle elde edilebileceği gibi aynı şartlı toplam düzgün olmayan simetrik olasılığın sabit değişkenli işlem uzunluklu eşitliğinde  $n_i$  üzerinden toplam alımında  $n_i$  yerine toplam alınmadan  $n$  yazılmasıyla da teorik yöntemle elde edilebilecektir.

Sadece bağımsız durumla başlayan veya sadece bağımlı durumla başlayan dağılımların toplam düzgün simetrik olasılık eşitlikleri, *simetrisiyle ilişkili* eşitliklerle de verilecektir.

Bu ciltte bağımlı-bir bağımsız durumlu simetrisinin, bağımsız durumla başlayan dağılımlardaki, simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılığın eşitlikleri verilecektir.

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI-BİR BAĞIMSIZ DURUMLU SİMETRİSİYLE İLİŞKİLİ TOPLAM DÜZGÜN OLMAYAN SİMETRİ

Simetrisiyle ilişkili eşitlikler; simetrik, düzgün simetrik ve düzgün olmayan simetrik durumların bağımsız durumla başlayan dağılımlardaki veya bağımlı durumla başlayan dağılımlardaki olasılıklarının, bağımsız ve bağımlı durumla başlayan dağılımlardaki eşitlikleriyle verilmesinden elde edilir. Bağımsız durumla başlayan dağılımların simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılıkları, bağımsız ve bağımlı durumla başlayan dağılımlardaki eşitlikleriyle verilebilir. Toplam düzgün olmayan simetri, olasılık dağılımlarındaki simetrik olasılıklarından, olasılık dağılımlarındaki toplam düzgün simetrik olasılıkların farkından elde edilebilir. Bağımsız durumla başlayan dağılımlardaki toplam düzgün olmayan simetrik olasılıklar ise bağımsız durumla başlayan dağılımlardaki simetrik olasılıktan, bağımsız durumla başlayan dağılımlardaki toplam düzgün simetrik olasılığın farkından elde edilebilir. Fakat yukarıda verilen tanım gereği bağımsız durumla başlayan dağılımlardaki simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılıklar, bağımsız durumla başlayan dağılımların simetrisiyle ilişkili simetrik olasılığından, bağımsız durumla başlayan dağılımların simetrisiyle ilişkili toplam düzgün simetrik olasılığının farkından elde edilebilir. Böylece bağımsız durumla başlayan dağılımlardaki bağımlı-bir bağımsız durumlu (bağımlı durumla başlayıp bir bağımsız durumla biten simetri) simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılık için,

$${}^0S_0^{DOSD} = {}^0S_0 - {}^0S_0^{DSD}$$

$$\text{ve } {}^0S_0 = {}^0S \cdot \frac{(t+s) \cdot (t-1)}{n \cdot (t+s-1)}, \quad {}^0S_0^{DSD} = {}^0S^{DSD} \cdot \frac{(t-1)}{(n-s-1+1)} \text{ olmak koşuluyla,}$$

$${}^0S_0^{DOSD} = {}^0S \cdot \frac{(t+s) \cdot (t-1)}{n \cdot (t+s-1)} - {}^0S^{DSD} \cdot \frac{(t-1)}{(n-s-1+1)}$$

eşitliği elde edilir. Simetrisiyle ilişki eşitlikler, bağımsız ve bağımlı durumla başlayan dağılımların eşitlikleriyle ilgili olması gerektiğinden, eşitliğin sağındaki terimlerde  ${}^0S$  ve  ${}^0S^{DSD}$  bulunmalıdır. Bağımsız durumla başlayan dağılımlarda bağımlı-bir bağımsız durumlu simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılık eşitliklerinin elde edilmesinde hem olasılık dağılımlarındaki (bağımsız ve bağımlı durumla başlayan) simetrik olasılığın hem de olasılık dağılımlarındaki (bağımsız ve bağımlı durumla başlayan) düzgün simetrik olasılığın hesaplanmasında kullanılabilir tüm eşitlikler kullanılabilir. Aşağıda bağımsız durumla başlayan dağılımlardaki, olasılık dağılımları için verilen tüm simetrik olasılık eşitlikleriyle ve yine olasılık dağılımları için verilen tüm düzgün simetrik olasılık eşitlikleriyle elde edilebilecek; bağımsız durumla başlayan dağılımlarda bağımlı-bir bağımsız durumlu simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılığın temel eşitlikleri verilmektedir.

$$D = \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = \mathbf{s} + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\
& \left( \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!} \right)_{j_{sa}} -
\end{aligned}$$



$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k}^{( )}$$

$$\left( \frac{(n_i-s-I)!}{(n_i-n-I)! \cdot (n-s)!} \right)_{j^{sa}}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge l_{k_z}: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{( )} \right. \right.$$

$$\left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right.$$

$$\left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right.$$

$$\left. \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{( )}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k}$$

$$\frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) -
\end{aligned}$$

$$\begin{aligned}
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i-s-\mathbb{k}-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n-s)!} \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i-s-I)!}{(n_i-n-I)! \cdot (n-s-1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{D0SD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{\binom{n+j_{sa}^{ik}-s}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(\ )}{n_{ik}=n+\mathbb{k}-j_{ik}+2}} \sum_{n_{sa}=n-j^{sa}+\mathbb{k}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
& \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{n+j_{sa}^{ik}-s}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
& \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!}
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{\binom{n}{n_i=n+l+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk}} \frac{(n_i + j_s + j_{sa} - j^{sa} - s - lk - j_{sa}^s - 1)!}{(n_i - n - lk - 1)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{\binom{()}{j^{sa}=j_s+j_{sa}-1}} \sum_{\binom{n}{n_i=n+l+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+l-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk}} \frac{(n_i + j_s + j_{sa} - j^{sa} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge lk_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{n+j_{sa}^{ik}-s}{(j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{\binom{n}{n_i=n+l+1}} \sum_{\binom{n_i-j_{ik}+1}{n_{ik}=n+l-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-lk}{n_{sa}=n-j^{sa}+2}} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \right) \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-\mathbb{k}-2 \cdot j_{sa}^s-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-2 \cdot j_{sa}^s)!} \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-I-2 \cdot j_{sa}^s)!}{(n_i-n-I)! \cdot (n+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-2 \cdot j_{sa}^s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\end{aligned}$$



$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{is}=n+l_k-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)} \\
& \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - l_k - 1)!}{(n_i - n - l_k - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{(j^{sa}=j_s+j_{sa}-1)}
\end{aligned}$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{( )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\ & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \\ & \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) \\ & \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \\ & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \\ & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\ & \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \right) \end{aligned}$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}
\end{aligned}$$

$$\frac{\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k} - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(\ )} \sum_{j^{sa} = j_s + j_{sa} - 1}$$

$$\frac{\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - I)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z; z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right.$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right. \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \Big) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{\binom{()}{j^{sa}=j_s+j_{sa}-1}} \sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - \mathbf{n} - I)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s \geq 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{n+j_{sa}^{ik}-s}{(j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_{ik}+1}{n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}{n_{sa}=\mathbf{n}-j^{sa}+2}} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \right) \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i+j_{ik}+j_{sa}^s-j_s-j_{sa}^{ik}-s-\mathbb{k}-1)!}{(n_i-\mathbf{n}-\mathbb{k}-1)! \cdot (n+j_{ik}+j_{sa}^s-j_s-j_{sa}^{ik}-s)!} \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i+j_{ik}+j_{sa}^s-j_s-j_{sa}^{ik}-s-I)!}{(n_i-\mathbf{n}-I)! \cdot (n+j_{ik}+j_{sa}^s-j_s-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$



$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}
\end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(n_i - n - I)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - I)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right) \right.$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(j_{ik}-2)! \cdot (j_{sa}^{ik}-2)! \cdot (n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)! \cdot (n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})! \cdot (n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(j_{ik}-j_s-1)! \cdot (j_{sa}^{ik}-2)! \cdot (n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \right)$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1} \right. \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \right. \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \quad \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}
\end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} (n_i + j_{ik} + j_{sa} - j^{sa} - s - I - j_{sa}^{ik})!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z = z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) + \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!} \\ (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{(j^{sa}=j_s+j_{sa}-1)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - I)!}{(n_i - n - I)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s \geq 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_Z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}-1} \right)$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{k}-1} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j^{sa})!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s}
\end{aligned}$$



$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \left( \frac{(n_i-s-\mathbb{k}-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n-s)!} \right)_{j^{sa}} - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \left( \frac{(n_i-s-I)!}{(n_i-n-I)! \cdot (n-s)!} \right)_{j^{sa}}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota+s) \cdot (\iota-I)}{n \cdot (\iota+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \right)$$

$$\begin{aligned}
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}-1} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j_{ik}-1)!}{(\mathbf{n}+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}-1} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j_{ik}-1)!}{(\mathbf{n}+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right) \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j^{sa})!}{(\mathbf{n}+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(n_i-s-k-1)!}{(n_i-n-k-1)! \cdot (n-s)!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(n_i-s-l)!}{(n_i-n-l)! \cdot (n-s-1)!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge l = l = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$l = k + 1 \wedge s > 1 \wedge k > 0 \wedge l = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_s + j_{sa} - j_{ik} - s - I - j_{sa}^s - 1)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!} \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - I - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$



$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - I + 1)!}{(n_i - n - I)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbf{l}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{l}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{l}-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j_{ik}-1)!}{(\mathbf{n}+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbf{l}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{l}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{l}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{l}-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j_{ik}-1)!}{(\mathbf{n}+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbf{l}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{l}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{l}} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j^{sa})!}{(\mathbf{n}+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

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$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$



$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{sa} - s - I - j_{sa}^{ik} - 1)!}{(n_i - n - I)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + j_{sa}^{ik} - j_{sa} - s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \frac{(n_{ik}-n_{sa}-k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-k)} \\
& \frac{(n_i + j_s - s - k - j_{sa}^s - 1)!}{(n_i + j_s - n - k - j_{sa}^s - 1)! \cdot (n - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{(j^{sa}=j_s+j_{sa}-1)}
\end{aligned}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{is}-s-\mathbb{k}-1)!}{(n_{is}+j_s-\mathbf{n}-\mathbb{k}-j_{sa}^s-1)! \cdot (\mathbf{n}+j_{sa}^s-s-j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right.$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}$$

$$\left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} \right) +$$



$$\begin{aligned}
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(n_i+j_s-s-l_k-j_{sa}^s-1)!}{(n_i+j_s-n-l_k-j_{sa}^s-1)! \cdot (n-s)!}
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1}^{( )}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{( )}$$

$$\frac{(n_{is}-s-\mathbb{k}-1)!}{(n_{is}+j_s-\mathbf{n}-\mathbb{k}-j_{sa}^s-1)! \cdot (\mathbf{n}+j_{sa}^s-s-j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s+1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{( )} \right. \right.$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{( )}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) -
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k}$$

$$\frac{(n_{ik}+j_{ik}-j_s-s-l_k-1)!}{(n_{ik}+j_{ik}-n-l_k-j_{sa}^s-1)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k}$$

$$\frac{(n_{ik}+j_{ik}-j_s-s-l_k-1)!}{(n_{ik}+j_{ik}-n-l_k-j_{sa}^s-1)! \cdot (n+j_{sa}^s-s-j_s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge l_{kz}: z = 1 \Rightarrow$$

$${}^0S_0^{D0SD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k}$$

$$\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}$$

$$\frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right. \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \Big) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{ik})!} \\ (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{ik})!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s \geq 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{n+j_{sa}^{ik}-s}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_{ik}+1}{n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}{n_{sa}=\mathbf{n}-j^{sa}+2}} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 1)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s + 1)! \cdot (n-s)!} \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s-1)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s-1)! \cdot (n+j_{sa}^{ik}-s-j_{ik})!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z; z = 1 \Rightarrow$$



$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \\
& \frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{(j^{sa}=j_s+j_{sa}-1)}
\end{aligned}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(2 \cdot n_{is} + j_s - n_{ik} - j_{ik} - s - \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \\ \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}-1} \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\ \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\ \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}-1} \\ \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \right. \\ \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\ \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +$$

$$\begin{aligned}
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_{ik}+j^{sa}-j_s-s-\mathbb{k}-2)!}{(n_{ik}+j^{sa}-\mathbf{n}-\mathbb{k}-j_{sa}^s-2)! \cdot (n-s)!} -
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1} \\ \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k} \\ \frac{(n_{ik}+j^{sa}-j_s-s-l_k-2)!}{(n_{ik}+j^{sa}-n-l_k-j_{sa}^s-2)! \cdot (n+j_{sa}^s-s-j_s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_k: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \\ \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\ \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\ \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\ \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\ \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\ \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i - j_{ik} + 1)} \sum_{j^{sa}=j_{ik}+2}^{n_i + j_{ik} - j^{sa} - \mathbb{k}} \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_i + j_{ik} - j^{sa} - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_i+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\end{aligned}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j^{sa} + 1)!} \cdot$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
\end{aligned}$$



$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbf{k}}}{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - \mathbf{k} + 2)!} \cdot \frac{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}}{(2 \cdot n_i - n_{ik} - j^{sa} - \mathbf{n} - \mathbf{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbf{k}}}{(n_{ik} + j_{sa}^{ik} - s - \mathbf{k} - j_{sa}^s - 1)!} \cdot \frac{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}}{(n_{ik} + j^{sa} - \mathbf{n} - \mathbf{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

$$D = \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbf{k} + 1 \wedge s > 1 \wedge \mathbf{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbf{k} + 1 \wedge$$

$$\mathbf{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right)$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{k}-1}}{(j_{ik} - 2)!} \cdot \frac{(n - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)! \cdot (\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{k}-1}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j^{sa})!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j^{sa})!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\
& \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) \right) -
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2 \cdot n_i + j_s - n_{ik} - j^{sa} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j^{sa} - n - \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{ik} - j^{sa} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j^{sa} - n - \mathbb{k} - j_{sa}^s)! \cdot (n+j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{D0SD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
& \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!}
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)}$$

$$\frac{(n_{sa} + j^{sa} - j_s - s - 1)!}{(n_{sa} + j^{sa} - n - j_{sa}^s - 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{is}=n+l_k-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)}$$

$$\frac{(n_{sa} + j^{sa} - j_s - s - 1)!}{(n_{sa} + j^{sa} - n - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge l_{k_z}: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-l_k}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j^{sa}-n-j_{sa}^s-1)! \cdot (n+j_{sa}-s-j^{sa})!} \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j^{sa}-n-j_{sa}^s-1)! \cdot (n+j_{sa}-s-j^{sa})!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \frac{(n_{ik}-n_{sa}-k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k}
\end{aligned}$$



$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \\
& \frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{(j^{sa}=j_s+j_{sa}-1)}
\end{aligned}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa} - s - j^{sa})!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \right. \\ \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\ \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \right. \\ \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\ \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \right. \\ \left. (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\ \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \right. \\ \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\ \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \right)$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}
\end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!} \cdot \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n-s)!}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j^{sa}-n-j_{sa}^s-1)! \cdot (n+j_{sa}-s-j^{sa})!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right)$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - k - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n + j_{sa} - s} \sum_{j^{sa}=j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa}=n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - k} \right) \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s + j_{sa}^{ik} - 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j^{sa}=j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i - j_s + 1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_{sa}=n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - k} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbf{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbf{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbf{k} + 1 \wedge s > 1 \wedge \mathbf{k} > 0 \wedge I = 1 \wedge s = s + \mathbf{k} + 1 \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}^0 S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{lk})}^{(n+j_{sa}^{lk}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}} \right)$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{lk})! \cdot (j_{sa}^{lk} - 2)!} \cdot \frac{(\mathbf{n} + j_{sa}^{lk} - j_{ik} - j_{sa})!}{(\mathbf{n} + j_{sa}^{lk} - j_{ik} - s)! \cdot (s - j_{sa})!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(n + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa})!} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s)! \cdot \sum_{j_s=1}^{n-s+1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n+j_{sa}^s-s-j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\right)$$



$$\begin{aligned}
& \frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(j_{ik}-2)! \cdot (j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(j_{ik}-j_s-1)! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(j_{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = \mathbf{s} + 1 \vee$$

$$I = \mathbf{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbf{k} > 0 \wedge I = 1 \wedge \mathbf{s} = \mathbf{s} + \mathbf{k} + 1 \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbf{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbf{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbf{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbf{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-j_{sa})!}{(n+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbf{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbf{k})!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{i-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i+n_{ik}+j_{ik}-n_{sa}-j^{sa}-s-2 \cdot \mathbb{k}-1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_{sa}-j^{sa}-n-2 \cdot \mathbb{k}-j_{sa}^s-1)! \cdot (n-s)!}
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k}^{( )}$$

$$\frac{(n_{is} + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot l_k - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot l_k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_z}: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+1}^{( )} \right. \right.$$

$$\left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \right.$$

$$\left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \right.$$

$$\left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{( )}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1}$$

$$\frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i - j_{ik} + 1)} \sum_{j^{sa}=j_{ik}+2}^{n_i + j_{ik} - j^{sa} - \mathbb{k}} \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s + j_{sa}^{ik} - 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j^{sa}=j_{ik}+2}^{n + j_{sa} - s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i - j_s + 1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa}=n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}
\end{aligned}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1} (n_{i=n+l_k+1}) \sum_{n_{is}=\mathbf{n}+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k}^{(n)}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge l_k = 0 \wedge I = \mathbf{I} = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge \mathbf{I} = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_k: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \sum_{(n_i=\mathbf{n}+l_k+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-l_k-1} \right)$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+l_k+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-l_k-1}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
\end{aligned}$$



$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbf{k}}}{\frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j_{ik}-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}-s-j_{ik}-1)!}}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbf{k}}}{\frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j_{ik}-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}-s-j_{ik}-1)!}}$$

$$D = \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbf{k} + 1 \wedge s > 1 \wedge \mathbf{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbf{k} + 1 \wedge$$

$$\mathbf{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{k}-1}}}{\frac{(j_{ik}-2)! \cdot (n-j_{ik}-1)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)! \cdot (\mathbf{n}+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!}}$$

$$\frac{(n_i-n_{ik}-1)! \cdot (n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)! \cdot (n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{k}-1}}}{(n_i-n_{ik}-j_{ik}+1)! \cdot (n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j_{ik} - 1)!}{(n + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) -
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\cdot)}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{\binom{(\cdot)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+1} \right.$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(\cdot)}{n_{ik}=n+\mathbb{k}-j_{ik}+2}}^{n_i-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_{ik}+1}$$

$$\begin{aligned}
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k-1} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right) \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa} - s - j_{ik} - 1)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
& {}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{\mathbf{n} \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}-1} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right) \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{D \text{ OSD}} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j_{ik} - 1)!}{(n + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j_{ik} - 1)!}{(n + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left( \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k}
\end{aligned}$$



$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{lk} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{\binom{n}{n_i=n+l+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk}} \frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot lk - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot lk - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{lk}-1}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{\binom{n}{n_i=n+l+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+l-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk}} \frac{(2 \cdot n_{is} + j_s - n_{sa} - j_{ik} - s - 2 \cdot lk - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot lk - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{n+j_{sa}^{lk}-s}{j_{ik}=j_{sa}^{lk}}} \sum_{j^{sa}=j_{ik}+1} \sum_{\binom{n}{n_i=n+l+1}} \sum_{\binom{n_i-j_{ik}+1}{n_{ik}=n+l-j_{ik}+2}} \sum_{\binom{n_{ik}-lk-1}{n_{sa}=n-j^{sa}+2}} \right)$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbf{k}-1} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j_{ik} - 1)!}{(\mathbf{n} + j_{sa} - j_{ik} - s - 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \\
& \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbf{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j^{sa})!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=\mathbf{n}+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_{s_a}=\mathbf{n}-j^{s_a}+2}^{n_{i_k}+j_{i_k}-j^{s_a}-\mathbb{k}} \\
& \frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-j_{s_a}^{i_k}+1)! \cdot (j_{s_a}^{i_k}-2)!} \cdot \frac{(\mathbf{n}-j^{s_a})!}{(\mathbf{n}+j_{s_a}-j^{s_a}-s)! \cdot (s-j_{s_a})!} \cdot \\
& \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!} \cdot \\
& \left. \frac{(n_{i_k}-n_{s_a}-1)!}{(j^{s_a}-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_{s_a}-j^{s_a})!} \cdot \frac{(n_{s_a}-1)!}{(n_{s_a}+j^{s_a}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{s_a})!} \right) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j^{s_a}=j_{i_k}+1)} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(\ )} \sum_{n_{s_a}=n_{i_k}+j_{i_k}-j^{s_a}-\mathbb{k}} \\
& \frac{(3 \cdot n_i + 2 \cdot j_s - n_{i_k} - n_{s_a} - 2 \cdot j^{s_a} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{i_k} - n_{s_a} - 2 \cdot j^{s_a} - \mathbf{n} - 2 \cdot \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!} - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(\ )} \sum_{j^{s_a}=j_{i_k}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(\ )} \sum_{n_{s_a}=n_{i_k}+j_{i_k}-j^{s_a}-\mathbb{k}} \\
& \frac{(3 \cdot n_{i_s} + 2 \cdot j_s - n_{i_k} - n_{s_a} - 2 \cdot j^{s_a} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{i_s} + 3 \cdot j_s - n_{i_k} - n_{s_a} - 2 \cdot j^{s_a} - \mathbf{n} - 2 \cdot \mathbb{k})! \cdot (\mathbf{n} + j_{s_a}^s - s - j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{i_k} = j^{s_a} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{i_k} = j^{s_a} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(\iota+s) \cdot (\iota-I)}{n \cdot (\iota+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{i_k}=j_{s_a}^{i_k})}^{(n+j_{s_a}^{i_k}-s)} \sum_{j^{s_a}=j_{i_k}+1} \right)$$

$$\begin{aligned}
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k-1} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k-1} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right) \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n-s)!} \\
& (D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n+j_{sa}^s-s-j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+1} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{ik}-1)!}{(n+j_{sa}-j_{ik}-s-1)! \cdot (s-j_{sa})!} \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+2} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$



$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k} - 2)!}{(n_i + n_{ik} + j_s - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_{is} + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k} - 2)!}{(n_{is} + n_{ik} + j_s - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!} \\
& \frac{(n_{is} + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 2)!}{(n_{is} + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\ &\quad \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ &\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\ &\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\ &\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\ &\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}^{ik}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \left( \frac{(n_i - s - l_k - 1)!}{(n_i - n - l_k - 1)! \cdot (n - s)!} \right)_{j^{sa}} - \\
& (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j^{sa}=j_s+j_{sa}-1}
\end{aligned}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \left( \frac{(n_i-s-I)!}{(n_i-n-I)! \cdot (n-s)!} \right)_{j^{sa}}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\ &\quad \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ &\quad \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\ &\quad \left. \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{i_s}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \quad \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \quad \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \quad \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \quad \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right) \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Bigg) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-l}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})}$$

$$\begin{aligned}
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\quad)} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \left( \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n - s)!} \right)_{j^{sa}} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(\quad)} \sum_{j^{sa} = j_s + j_{sa} - 1} \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = n + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik} - \mathbb{k}_1)}^{(\quad)} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \left( \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n - s)!} \right)_{j^{sa}}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s = 1} \sum_{(j_{ik} = j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa} = j_{sa}} \right. \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 2)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}} \right. \\
& \sum_{\binom{(n)}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{\binom{(n)}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} - s - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)$$

$$\begin{aligned}
& \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\quad)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{(\quad)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_s+1)}^{j_{sa}^{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = \mathbf{n} + \mathbb{k}_2 - j_{i_k} + 2)}^{(n_{i_s} + j_s - j_{i_k} - \mathbb{k}_1)} \sum_{n_{s_a} = \mathbf{n} - j^{s_a} + 2}^{n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(j^{s_a} - j_{i_k} - 1)!}{(j^{s_a} + j_{s_a}^{i_k} - j_{i_k} - j_{s_a})! \cdot (j_{s_a} - j_{s_a}^{i_k} - 1)!} \cdot \\
& \frac{(n - j^{s_a})!}{(n + j_{s_a} - j^{s_a} - s)! \cdot (s - j_{s_a})!} \cdot \\
& \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
& \left. \frac{(n_{i_k} - n_{s_a} - 1)!}{(j^{s_a} - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_{s_a} - j^{s_a})!} \cdot \frac{(n_{s_a} - 1)!}{(n_{s_a} + j^{s_a} - \mathbf{n} - 1)! \cdot (n - j^{s_a})!} \right) - \\
& (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{i_k} = j_{s_a}^{i_k}} \sum_{(j^{s_a} = j_{s_a})} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{i_k} = n_i - j_{i_k} - \mathbb{k}_1 + 1)}^{( )} \sum_{n_{s_a} = n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n - s)!} - \\
& (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{i_k} = j_s + j_{s_a}^{i_k} - 1)}^{( )} \sum_{j^{s_a} = j_s + j_{s_a} - 1} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = n_{i_s} + j_s - j_{i_k} - \mathbb{k}_1)}^{( )} \sum_{n_{s_a} = n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n - s - 1)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=j_{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
&\quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_k+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_k)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right) \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$



$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_i + j_s + j_{sa} - j^{sa} - s - k - j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_i + j_s + j_{sa} - j^{sa} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j_{sa}=j_{sa}}^{(n)} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\
& \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - k_2 - 1)! \cdot (n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)! \cdot (n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_{sa}=j_s+j_{sa}-1}^{(n)} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{D-s}{j_s}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+l_k+1)}^{\binom{n}{n_i}} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
& \quad \left. \sum_{j_s=1}^{\binom{n+j_{sa}^{ik}-s}{j_s}} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+l_k+1)}^{\binom{n}{n_i}} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{\binom{n-s+1}{j_s}} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+l_k+1)}^{\binom{n}{n_i}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right) \\
& \left( \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right) \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}
\end{aligned}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{i_s}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \right. \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n-j_s-j_{sa}+1)!}{(\mathbf{n}-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \quad \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdot)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \quad \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \quad \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \quad \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right) \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Bigg) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-l}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})}$$

$$\frac{\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} (n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(\ )} \sum_{j^{sa} = j_s + j_{sa} - 1}$$

$$\frac{\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik} - \mathbb{k}_1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} (n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - I - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{D \circ s D} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s = 1}^{(\ )} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{j^{sa} = j_{sa}}$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 2)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_{k_1}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_{k_1})!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-l_{k_2}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-l_{k_2})!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_{sa}^{ik}-1)!}{(j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right. \\
 & \left. \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}} \right. \\
& \sum_{\binom{(n)}{(n_i=n+k+1)}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{(n_{ik}=n+k_2-j_{ik}+2)}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{(j_{ik}=j_s+j_{sa}^{ik})}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}} \\
& \sum_{\binom{(n)}{(n_i=n+k+1)}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{(n_{ik}=n+k_2-j_{ik}+2)}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$D = \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = \mathbf{s} + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = \mathbf{s} + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{(\cdot)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_s+1)}^{j_{sa}^{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = \mathbf{n} + \mathbb{k}_2 - j_{i_k} + 2)}^{(n_{i_s} + j_s - j_{i_k} - \mathbb{k}_1)} \sum_{n_{s_a} = \mathbf{n} - j^{s_a} + 2}^{n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(j^{s_a} - j_{i_k} - 1)!}{(j^{s_a} + j_{s_a}^{i_k} - j_{i_k} - j_{s_a})! \cdot (j_{s_a} - j_{s_a}^{i_k} - 1)!} \cdot \\
& \frac{(n - j^{s_a})!}{(n + j_{s_a} - j^{s_a} - s)! \cdot (s - j_{s_a})!} \cdot \\
& \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
& \left. \frac{(n_{i_k} - n_{s_a} - 1)!}{(j^{s_a} - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_{s_a} - j^{s_a})!} \cdot \frac{(n_{s_a} - 1)!}{(n_{s_a} + j^{s_a} - \mathbf{n} - 1)! \cdot (n - j^{s_a})!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{i_k} = j_{s_a}^{i_k}} \sum_{(j^{s_a} = j_{s_a})} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{i_k} = n_i - j_{i_k} - \mathbb{k}_1 + 1)}^{( )} \sum_{n_{s_a} = n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(n_i + j^{s_a} + j_{s_a}^s - j_s - j_{s_a} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (n + j^{s_a} + j_{s_a}^s - j_s - j_{s_a} - s)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{i_k} = j_s + j_{s_a}^{i_k} - 1)}^{( )} \sum_{j^{s_a} = j_s + j_{s_a} - 1} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = n_{i_s} + j_s - j_{i_k} - \mathbb{k}_1)}^{( )} \sum_{n_{s_a} = n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(n_i + j^{s_a} + j_{s_a}^s - j_s - j_{s_a} - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (n + j^{s_a} + j_{s_a}^s - j_s - j_{s_a} - s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_k+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-l_k-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-l_k+1)!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_k)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_k-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_k)!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-l_k-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_k)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
&\quad \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_k+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j_{sa}=j_{sa}}^{(n)} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\
& \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - k_2 - 1)! \cdot (n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)! \cdot (n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_{sa}=j_s+j_{sa}-1}^{(n)} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{D-s}{j_s}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \left. \sum_{(n_i=n+l_k+1)}^{\binom{n}{n_i}} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
& \quad \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
& \quad \left. \sum_{j_s=1}^{\binom{n+j_{sa}^{ik}-s}{j_s}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_k+1)}^{\binom{n}{n_i}} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
& \quad \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{\binom{n-s+1}{j_s}} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{\binom{D-s-1}{j_s}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_k+1)}^{\binom{n}{n_i}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{\substack{(n) \\ (n_i = n + \mathbb{k} + 1)}} \sum_{\substack{n_i - j_s + 1 \\ n_{is} = n + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}} \sum_{\substack{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 2) \\ n_{sa} = n - j^{sa} + 2}} \sum_{j_s=2}^{n-s+1} \sum_{\substack{(n + j_{sa}^{ik} - s) \\ (j_{ik} = j_s + j_{sa}^{ik})}} \sum_{\substack{n + j_{sa} - s \\ j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(\ )} \sum_{j^{sa} = j_s + j_{sa} - 1}
\end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_i-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_i-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \right)$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \quad \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \quad \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right) \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Bigg) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-l}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} (n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} (n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DASD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$



$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-k_2)!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_{sa}^{ik}-1)!}{(j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right. \\
& \left. \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}} \right. \\
& \sum_{\binom{(n)}{n_i=n+k_1+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{\binom{(n)}{n_i=n+k_1+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{j_{ik}=j_s+j_{sa}^{ik}}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_{ik}-\mathbb{k}_1+1}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}$$

$$\begin{aligned}
& \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\quad)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{(\quad)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_s+1)}^{j_{sa}^{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - \mathbb{k}_1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(\ )} \sum_{j^{sa} = j_s + j_{sa} - 1} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik} - \mathbb{k}_1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=j_{sa}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
&\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_{sa}=j_s+j_{sa}-1}^{(n_i+j_s-j_{ik}-\mathbb{k}_1)} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
&\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \\
&\quad \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
&\quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_k+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_k)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \right) \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$



$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \right. \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=\mathbf{n}-j_{sa}+2)}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\quad \left. \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (n - j_{sa})!} \right) + \\ &\quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\quad \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\ &\quad \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \right) \end{aligned}$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) \Big) \Big) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i+j_{ik}+j_{sa}^s-j_s-j_{sa}^{ik}-s-\mathbb{k}_1-\mathbb{k}_2-1)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2-1)! \cdot (n+j_{ik}+j_{sa}^s-j_s-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\begin{aligned}
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
& \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
& \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) - \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) -
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{(j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}$$



$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
& \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{\binom{n}{(n_i=n+l_k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-l_k+1)}} \sum_{\binom{()}{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)}} \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - l_k - l_k - 1)!}{(n_i - n - l_k - l_k - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_s+j_{sa}-1} \sum_{\binom{n}{(n_i=n+l_k+1)}} \sum_{\binom{()}{(n_{is}=n+l_k+l_k-j_s+2)}} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-l_k)}} \sum_{\binom{()}{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)}} \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - l_k - l_k - 1)!}{(n_i - n - l_k - l_k - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$$

$$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
& \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \\
& \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )} \\
& \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \\
& \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!}} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right.
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-k-j_{sa}^{ik}-1)!}{(n_i-n-k-1)! \cdot (n+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-I-j_{sa}^{ik})!}{(n_i-n-I)! \cdot (n+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}^{ik}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right)
\end{aligned}$$



$$\begin{aligned}
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - l_{k_1} - l_{k_2} - j_{sa}^{ik} - 1)!}{(n_i - n - l_{k_1} - l_{k_2} - 1)! \cdot (n + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!} - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_i=j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - k_1 - k_2 - j_{sa}^{ik} - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_i=j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \right)$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \quad \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right) \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}}{(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - I)!}{(n_i - n - I)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DASD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_{k_1}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_{k_1})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-l_{k_2}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-l_{k_2})!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}} \right. \\
& \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right. \\
& \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}} \right. \\
& \sum_{\binom{(n)}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{j_{ik}=j_s+j_{sa}^{ik}}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}} \\
& \sum_{\binom{(n)}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}$$



$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}-2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) - \\
& (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
\end{aligned}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \left( \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \left( \frac{(n_i - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \right.$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} - k_2 - 1} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s = 1}^{(n)} \sum_{(j_{ik} = j_{sa}^{ik})}^{(n)} \sum_{j^{sa} = j_{ik} + 2}^{n + j_{sa} - s} \right. \right. \\
& \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + 1} \\
& \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \left( \frac{(n_i-s-k_1-k_2-1)!}{(n_i-n-k_1-k_2-1)! \cdot (n-s)!} \right)_{j^{sa}} -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\cdot)} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2-1)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2-1)! \cdot (n-s)!} \right)_{j^{sa}}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s+1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot$$

$$\frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{\binom{)}{}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=1}^{\binom{)}{}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{\binom{)}{}} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \left. \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right) \right) - \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \left. \left( \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right) \right) - \\
& \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n - s)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \left. \left( \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right) \right) - \\
& \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s - 1)!}
\end{aligned}$$



$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{sa}}^{(n)} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{(n)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) \Big) \Big) \Big) \Big) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i-s-k_1-k_2-1)!}{(n_i-n-k_1-k_2-1)! \cdot (n-s)!} - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i-s-k_1-k_2-1)!}{(n_i-n-k_1-k_2-1)! \cdot (n-s-1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
&\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
&\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \right. \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right. \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!}
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )} (n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 2)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )} (n_i + j_s + j_{sa} - j_{ik} - s - I - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=\mathbf{n}-j^{sa}+2)}^{n_{ik}-\mathbb{k}_2-1} \right)$$

$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}-2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}+1}}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) - \\
& (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
\end{aligned}$$



$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}}{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 2)!} \cdot \frac{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}}{(n_i=\mathbf{n}+\mathbb{k}+1) \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}}{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 2)!} \cdot \frac{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \right)$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(\mathbf{n} - j_{sa})!}{(\mathbf{n} - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} - k_2 - 1} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s = 1}^{(n)} \sum_{(j_{ik} = j_{sa}^{ik})}^{(n)} \sum_{j^{sa} = j_{ik} + 2}^{n + j_{sa} - s} \right. \right. \\
& \left. \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - k_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + 1}^{n + j_{sa} - s} \\
& \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} j^{sa=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}^{()} \frac{(n_i+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-2 \cdot j^{sa}-s-I-2 \cdot j_{sa}^s+1)!}{(n_i-n-I)! \cdot (n+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-2 \cdot j^{sa}-s-2 \cdot j_{sa}^s+1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right.$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{\binom{(\cdot)}{n+j_{sa}-s}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2} \right. \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{\binom{(n)}{n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2} \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j^{sa})!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& \sum_{j_s=1}^{\binom{(n+j_{sa}^{ik}-s)}{n+j_{sa}-s}} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{\binom{(n)}{n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2} \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(\mathbf{n} - j^{sa})!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right) \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{\binom{(n-s+1)}{n+j_{sa}-s}} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+2} \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{\binom{(n)}{n_i-j_s+1}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \left. \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \right. \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \left. \left( \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \right. \\
& \frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - k_1 - k_2 - 2 \cdot j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
& \left. \left( \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \right)
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_{sa}=j_{sa}}^{(\cdot)} \right.$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_{sa}=j_s+j_{sa}-1}^{(\cdot)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +$$

$$\begin{aligned}
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
& \quad \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \quad \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
\end{aligned}$$



$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
&\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \right) \cdot \\
&\quad \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
&\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
&\quad \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
&\quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
&\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}^{ik}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}^{ik}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}^{ik}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}
\end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\mathbf{n}+\mathbb{k}_1+1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\mathbf{n}+\mathbb{k}_1+1)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
 & (D-s) \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Big) -
\end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - I + 1)!}{(n_i - n - I)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{(j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}-k_2-1} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} + \right. \\
& \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+1} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$



$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\begin{aligned}
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right)
\end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \left. \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right) \right) \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) - \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i+j_s+j_{sa}^{ik}-j^{sa}-s-\mathbb{k}-j_{sa}^s)!}{(n_i-n-\mathbb{k}-1)! \cdot (n+j_s+j_{sa}^{ik}-j^{sa}-s-j_{sa}^s+1)!} \\
& (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}
\end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - I - j_{sa}^s + 1)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\ &\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\ &\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \quad \left( \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
& \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^s + 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_2: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \binom{(\quad)}{\quad} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
&\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \right) \cdot \\
&\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_s+j_{sa}-1} \binom{(\quad)}{\quad} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
&\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \right) \cdot \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
&\quad \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
&\quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
&\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right)
\end{aligned}$$



$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
& \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right.
\end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbf{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}_2)} \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbf{k} - 2)!}{(n_i - n - \mathbf{k} - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\mathbf{n}+\mathbf{k}+1)} \sum_{n_{is}=\mathbf{n}+\mathbf{k}_1+\mathbf{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbf{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}_2)} \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbf{k} + 1 \wedge s > 1 \wedge \mathbf{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbf{k} + 1 \wedge$$

$$\mathbf{k}_z: z = 2 \wedge \mathbf{k} = \mathbf{k}_1 + \mathbf{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbf{k} + 1 \wedge s > 1 \wedge \mathbf{k}_z > 0 \wedge \mathbf{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbf{k} + 1 \wedge \mathbf{k}_z: z = 1 \wedge \mathbf{k} = \mathbf{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Bigg) + \\
 & \left( (D-s) \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Big) -
\end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{(\ )}{n_{ik}=n+k_2-j_{ik}+2}}^{n_i-j_{ik}-k_1+1} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$



$$\begin{aligned}
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}_2-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k}-\mathbb{k}_1)} \sum_{n_{s_a}=n-j^{s_a}+2}^{n_{i_k}+j_{i_k}-j^{s_a}-\mathbb{k}_2} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(n - j^{s_a})!}{(n + j_{s_a} - j^{s_a} - s)! \cdot (s - j_{s_a})!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \frac{(n_{i_k} - n_{s_a} - 1)!}{(j^{s_a} - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_{s_a} - j^{s_a})!} \cdot \frac{(n_{s_a} - 1)!}{(n_{s_a} + j^{s_a} - n - 1)! \cdot (n - j^{s_a})!} + \\
 & \left. \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k})}^{(n+j_{s_a}^{i_k}-s)} \sum_{j^{s_a}=j_{i_k}+1}^{n+j_{s_a}-s} \right) \right) - \\
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}_2-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k}-\mathbb{k}_1)} \sum_{n_{s_a}=n-j^{s_a}+2}^{n_{i_k}+j_{i_k}-j^{s_a}-\mathbb{k}_2} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(n - j^{s_a})!}{(n + j_{s_a} - j^{s_a} - s)! \cdot (s - j_{s_a})!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \frac{(n_{i_k} - n_{s_a} - 1)!}{(j^{s_a} - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_{s_a} - j^{s_a})!} \cdot \frac{(n_{s_a} - 1)!}{(n_{s_a} + j^{s_a} - n - 1)! \cdot (n - j^{s_a})!} \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j^{s_a}=j_{i_k}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{s_a}=n_{i_k}+j_{i_k}-j^{s_a}-\mathbb{k}_2} \\
 & \frac{(n_i + j_{i_k} + j_{s_a}^s + j_{s_a} - j_s - 2 \cdot j_{s_a}^{i_k} - s - \mathbb{k}_1 - \mathbb{k}_2 - 2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_{i_k} + j_{s_a}^s + j_{s_a} - j_s - 2 \cdot j_{s_a}^{i_k} - s - 1)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(\ )} \sum_{j^{s_a}=j_{i_k}+1}
 \end{aligned}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{sa}} \right. \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\ &\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\ &\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \right. \\ &\quad \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{j^{sa}=j_{ik}+2}^{(n_{ik}+j_{ik}-j^{sa}-l_{k_2})} \right) \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
& \quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
& \quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
& \quad \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \quad \left( \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
& \quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
& \quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
& \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}^{ik}-s} \right. \\
& \quad \left. \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
& \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
& \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i + j_{sa} - s - k - j_{sa}^{ik} - 2)!}{(n_i - n - k - 1)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_i + j_{sa} - s - I - j_{sa}^{ik} - 1)!}{(n_i - n - I)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
&\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \right) \cdot \\
&\quad \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
&\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \right) \cdot \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
&\quad \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
&\quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
&\quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right) \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}^{ik}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}^{ik}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right.
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{ik}+1} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(n_i + j_{sa} - s - k_1 - k_2 - j_{sa}^{ik} - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_{ik}+1} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(n_i + j_{sa} - s - k_1 - k_2 - j_{sa}^{ik} - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_z > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}} \right)$$



$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \left( (D-s) \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Big) -
\end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - k)!}{(n_i - n - k - 1)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}-k_2-1} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
& \left( \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j_{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}
\end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \quad \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
 & \quad \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}$$

$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!} \cdot$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_{k_1}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_{k_1})!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-l_{k_2}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-l_{k_2})!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}
 \end{aligned}$$



$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j_s - s - k - j_{sa}^s - 1)!}{(n_i + j_s - n - k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_{is} - s - k - 1)!}{(n_{is} + j_s - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=n-j^{sa}+2}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1) \quad n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i + j_s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_{is} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_{is} + j_s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k+1-j_{ik}+2)}^{(n_i-j_{ik}-l_k+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-l_k-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-l_k+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_k)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-l_k-1} \\
&\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_k-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_k)!} \cdot \right. \\
&\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}-l_k+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_k} \\
&\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
&\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
& \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right)
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i + j_s - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \frac{(n_{is} - s - \mathbb{k} - 1)!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n-j^{sa}+1)}^{n_{ik}-\mathbb{k}_2-1}$$

$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}-2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}+1}}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i + j_s - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i + j_s - n - k_1 - k_2 - j_{sa}^s - 1)! \cdot (n - s)!}}{(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_{is} - s - k_1 - k_2 - 1)!}{(n_{is} + j_s - n - k_1 - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!}}{\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}} \cdot \frac{(n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_{k_1}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_{k_1})!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-l_{k_2}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-l_{k_2})!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_{sa}-j_{ik}-1)!}{(j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right. \\
 & \left. \frac{(n-j_{sa})!}{(n+j_{sa}-j_{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-l_{k_2}}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\quad)}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}} \right. \\
& \sum_{\binom{(n)}{(n_i=n+k+1)}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{(n_{ik}=n+k_2-j_{ik}+2)}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{(j_{ik}=j_s+j_{sa}^{ik})}} \sum_{\binom{n+j_{sa}-s}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}} \\
& \sum_{\binom{(n)}{(n_i=n+k+1)}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{(n_{ik}=n+k_2-j_{ik}+2)}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-k_2}{n_{sa}=n-j^{sa}+2}} \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)$$

$$\begin{aligned}
& \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \\
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{(\cdot)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_s+1)}^{j_{sa}^{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = \mathbf{n} + \mathbb{k}_2 - j_{i_k} + 2)}^{(n_{i_s} + j_s - j_{i_k} - \mathbb{k}_1)} \sum_{n_{s_a} = \mathbf{n} - j^{s_a} + 2}^{n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(j^{s_a} - j_{i_k} - 1)!}{(j^{s_a} + j_{s_a}^{i_k} - j_{i_k} - j_{s_a})! \cdot (j_{s_a} - j_{s_a}^{i_k} - 1)!} \cdot \\
& \frac{(n - j^{s_a})!}{(n + j_{s_a} - j^{s_a} - s)! \cdot (s - j_{s_a})!} \cdot \\
& \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
& \left. \frac{(n_{i_k} - n_{s_a} - 1)!}{(j^{s_a} - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_{s_a} - j^{s_a})!} \cdot \frac{(n_{s_a} - 1)!}{(n_{s_a} + j^{s_a} - \mathbf{n} - 1)! \cdot (n - j^{s_a})!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{i_k} = j_{s_a}^{i_k}} \sum_{(j^{s_a} = j_{s_a})} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{i_k} = n_i - j_{i_k} - \mathbb{k}_1 + 1)}^{(\ )} \sum_{n_{s_a} = n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(n_{i_k} + j_{i_k} + \mathbb{k}_1 - j_s - s - \mathbb{k} - 1)!}{(n_{i_k} + j_{i_k} + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{s_a}^s - 1)! \cdot (n - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{i_k} = j_s + j_{s_a}^{i_k} - 1)}^{(\ )} \sum_{j^{s_a} = j_s + j_{s_a} - 1} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = n_{i_s} + j_s - j_{i_k} - \mathbb{k}_1)}^{(\ )} \sum_{n_{s_a} = n_{i_k} + j_{i_k} - j^{s_a} - \mathbb{k}_2} \\
& \frac{(n_{i_k} + j_{i_k} + \mathbb{k}_1 - j_s - s - \mathbb{k} - 1)!}{(n_{i_k} + j_{i_k} + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{s_a}^s - 1)! \cdot (n + j_{s_a}^s - s - j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$



$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=j_{sa}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_{sa}=j_s+j_{sa}-1}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}
 \end{aligned}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{ik})!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \right) \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=\mathbf{n}-j_{sa}+2)}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\quad \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} + \\ &\quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}=j_s+j_{sa}-1} \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\quad \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \end{aligned}$$

$$\begin{aligned}
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\begin{aligned}
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{(n_i=n+l_k+1)}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-l_{k_1})}{(n_{ik}=n+l_{k_2}-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{(j_{ik}=j_s+j_{sa}^{ik})}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{(n_i=n+l_k+1)}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-l_{k_1})}{(n_{ik}=n+l_{k_2}-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) -
 \end{aligned}$$

$$\begin{aligned}
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot k_1 - k_2 + 1)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 1)! \cdot (n-s)!} \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
& \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{\binom{(\cdot)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(\cdot)} \sum_{\binom{(n+j_{sa}^{ik}-s)}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
& \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n - s)!} (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
 & \frac{\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \\
 & \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )} \\
 & \frac{\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \\
 & \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \frac{\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!}} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +
 \end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Bigg) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n-s)!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(2 \cdot n_{is} + j_s - n_{ik} - j_{ik} - s - 2 \cdot k_1 - k_2 - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s - 1)! \cdot (n+j_{sa}^s-s-j_s)!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$



$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}^{ik}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
 \end{aligned}$$

$$\frac{(2 \cdot n_{is} + j_s + \mathbb{k}_2 - n_{ik} - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s + \mathbb{k}_2 - n_{ik} - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \right.$$

$$\left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \right.$$

$$\left. \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right.$$

$$\left. (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \right.$$

$$\left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \right.$$

$$\left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \right.$$

$$\left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +$$

$$\left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right.$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_{ik}+j^{sa}-j_s-s-k_2-2)!}{(n_{ik}+j^{sa}-n-k_2-j_{sa}^s-2)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_{ik}+j^{sa}-j_s-s-k_2-2)!}{(n_{ik}+j^{sa}-n-k_2-j_{sa}^s-2)! \cdot (n+j_{sa}^s-s-j_s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=j_{sa}}^{n_{ik}-\mathbb{k}_2-1} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 &\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{(n_i-j_{ik}-\mathbb{k}_1)} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 &\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \right. \\
 &\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 &\quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right. \\
 &\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \qquad \qquad \qquad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \qquad \qquad \qquad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \qquad \qquad \qquad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
 \end{aligned}$$



$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_{ik} + j^{sa} + \mathbb{k}_1 - j_s - s - \mathbb{k} - 2)!}{(n_{ik} + j^{sa} + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_{ik} + j^{sa} + \mathbb{k}_1 - j_s - s - \mathbb{k} - 2)!}{(n_{ik} + j^{sa} + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge \mathbf{s} > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}-2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}+1}}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{\binom{()}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} (n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j^{sa} - n - k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} (n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j^{sa} - n - k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{D \circ s D} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
& \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j^{sa} + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}
 \end{aligned}$$

$$\frac{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_{sa}=j_{ik}+1}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2}^{()} \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{sa} + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_{sa} + 1)!}}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}=j_{sa}}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}-k_2-1} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_{sa}=j_s+j_{sa}-1}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}-k_2-1} \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - 2 \cdot k_1 - k_2 + 2)!}{(2 \cdot n_i - n_{ik} - j^{sa} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 2)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}
 \end{aligned}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{sa}^s + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_{sa}^s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_{sa}^s - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_{sa}^s - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_{sa}^s - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^s=j_{sa}} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}-k_2-1} \\
 & \left. \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} + \right. \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_{sa}^s=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j_{sa}+2}^{n_{ik}-k_2-1} \\
 & \left. \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \right. \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-k_1+1)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
 & \quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. \\
 & \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
 & \quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. \\
 & \quad \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
 & \quad \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j^{sa} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \left. \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \right) \cdot \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \left. \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
& \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
& \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right.
\end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=n+l_k+1)} \sum_{(n_{ik}=n_i-j_{ik}-l_k+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)} \frac{(2 \cdot n_i + l_k - n_{ik} - j_s - j^{sa} - s - 2 \cdot l_k + 2)!}{(2 \cdot n_i + l_k - n_{ik} - j^{sa} - n - 2 \cdot l_k - j_{sa}^s + 2)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=n+l_k+1)} \sum_{(n_{is}=n+l_k+l_k-j_s+2)} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_k)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_k)} \frac{(2 \cdot n_{is} + j_s - n_{ik} - j^{sa} - s - 2 \cdot l_k - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j^{sa} - n - 2 \cdot l_k - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$$

$$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
& \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
& \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \left( (D-s) \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s}
\end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) \Bigg) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j^{sa} - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j^{sa} - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s + k_2 - n_{ik} - j^{sa} - s - 2 \cdot k)!}{(2 \cdot n_{is} + 2 \cdot j_s + k_2 - n_{ik} - j^{sa} - n - 2 \cdot k - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DQSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{n-s} \sum_{\binom{(\cdot)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{n+j_{sa}^{ik}-s} \sum_{\binom{(n+j_{sa}^{ik}-s)}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}}$$

$$\frac{(n_{sa} + j^{sa} - j_s - s - 1)!}{(n_{sa} + j^{sa} - n - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}}$$

$$\frac{(n_{sa} + j^{sa} - j_s - s - 1)!}{(n_{sa} + j^{sa} - n - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_z > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
 & \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \\
 & \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )} \\
 & \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \\
 & \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!}} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j^{sa}-n-j_{sa}^s-1)! \cdot (n+j_{sa}-s-j^{sa})!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j^{sa}-n-j_{sa}^s-1)! \cdot (n+j_{sa}-s-j^{sa})!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$



$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}^{ik}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot k_1 - 2 \cdot k_2 + 1)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}
 \end{aligned}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa} - s - j^{sa})!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \\
&\quad \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \right) + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \\
&\quad \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} -
 \end{aligned}$$

$$(D-s)! \cdot \frac{t-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} j^{sa} = j_s+j_{sa}-1$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}^{()} \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j^{sa}-n-j_{sa}^s-1)! \cdot (n+j_{sa}-s-j^{sa})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} j^{sa} = j_s+j_{sa}-1$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\begin{aligned}
& \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!}
\end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{(n_i=n+l_k+1)}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-l_{k_1})}{(n_{ik}=n+l_{k_2}-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{(j_{ik}=j_s+j_{sa}^{ik})}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{(n_i=n+l_k+1)}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-l_{k_1})}{(n_{ik}=n+l_{k_2}-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{sa} - n - j_{sa}^s - 1)! \cdot (n + j_{sa} - s - j^{sa})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DQSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n - j_{sa})!}{(n-s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\quad)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{(n)}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{n_i=j_s+1}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=\mathbf{n}-j^{sa}+2}} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{(\quad)} \sum_{\binom{(\quad)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=\mathbf{n}-j^{sa}+2}} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
 & \sum_{j_s=1}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{\binom{(\quad)}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \right. \\
& \left. \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
\end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot k - k_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot k - k_1 - j_{sa}^s + 2)! \cdot (n - s)!} (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j^{sa} - n - j_{sa}^s - 1)! \cdot (n + j_{sa} - s - j^{sa})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_z > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \\
 & \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \\
 & \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(2 \cdot n_{is} + j_s - n_{sa} - j^{sa} - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{sa} - j^{sa} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$



$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}^{ik}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}
 \end{aligned}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \frac{(n - j_{sa})!}{(\mathbf{n} - s)! \cdot (s - j_{sa})!} \cdot \\
&\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
&\quad \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \right. \\
&\quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\quad \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
&\quad \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 3 \cdot l_{k_1} - 2 \cdot l_{k_2} - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 3 \cdot l_{k_1} - 2 \cdot l_{k_2} - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D-s)! \cdot \frac{t-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} j^{sa}=j_s+j_{sa}-1$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}^{()} \sum_{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}$$

$$\frac{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} j^{sa}=j_{sa}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} j^{sa}=j_s+j_{sa}-1$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\begin{aligned}
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{(n_i=n+l_k+1)}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-l_{k_1})}{(n_{ik}=n+l_{k_2}-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{(j_{ik}=j_s+j_{sa}^{ik})}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{(n_i=n+l_k+1)}} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-l_{k_1})}{(n_{ik}=n+l_{k_2}-j_{ik}+2)}} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DQSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n - j_{sa})!}{(n-s)! \cdot (s - j_{sa})!}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\quad)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{(n)}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{(\quad)} \sum_{\binom{(\quad)}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} + \\
 & \sum_{j_s=1}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{\binom{(\quad)}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

$$\frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!} (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_z > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}} \right)$$

$$\begin{aligned}
& \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \\
& \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}^{( )} \\
& \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!}} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \\
& \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!} \\
& \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
& \left. \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}}{\frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!}} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_{sa} - j^{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_{sa} - j^{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n+j_{sa}^s-s-j_s)!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$



$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}^{ik}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}^{ik}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}^{ik}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j^{sa}-j_{ik}-1)!}{(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})! \cdot (j_{sa}-j_{sa}^{ik}-1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot l_{k_2} - l_{k_1} - 1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot l_{k_2} - l_{k_1} - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}
 \end{aligned}$$

$$\frac{(n_{is} + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \right.$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}$$

$$\begin{aligned}
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right. \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdot)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j^{sa} - j_{ik} - 1)!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot (j_{sa} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \Big) \Big) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D-s)! \cdot \frac{t-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_{is} + n_{ik} + j_{ik} + k_1 - n_{sa} - j^{sa} - s - 2 \cdot k - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} + k_1 - n_{sa} - j^{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{j^{sa}=j_{ik}+2}^{n + j_{sa} - s} \right. \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2 - j_{ik} + 2)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa}=n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( \sum_{j_s=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik}=j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa}=j_{ik}+1}^{n + j_{sa} - s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2 - j_{ik} + 2)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa}=n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s + j_{sa}^{ik} - 1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n + j_{sa} - s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i - j_s + 1} \sum_{(n_{ik}=n+\mathbb{k}_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - \mathbb{k}_1)} \sum_{n_{sa}=n - j^{sa} + 2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \right)
\end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_{sa} + j_{ik} - j_s - s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_{sa} + j_{ik} - j_s - s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{(n_{ik}-k_2-1)} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{(n_{ik}-k_2-1)} \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\frac{\sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s}}{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!})}{(D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}}{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j_{ik}-n-j_{sa}^s)! \cdot (n+j_{sa}-s-j_{ik}-1)!} \cdot (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}}{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j_{ik}-n-j_{sa}^s)! \cdot (n+j_{sa}-s-j_{ik}-1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=j_{sa}}^{n_{ik}-\mathbb{k}_2-1} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \right. \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right) \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right. \\
 & \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
& \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right)
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}}{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)!} \cdot \frac{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s)! \cdot (n - s)!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}}{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!} \cdot \frac{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n-j^{sa}+1)}^{n_{ik}-\mathbb{k}_2-1} \right)$$

$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}-2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right. \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot k)!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}}{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$o_{S_0}^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}}{\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \cdot \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 3)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right) \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \left( \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 + 1)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
 & \left( \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{(n_{ik}-k_2-1)} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{(n_{ik}-k_2-1)} \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \Big) \Big) \Big) \Big) \Big) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot k - k_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 2 \cdot k - k_1 - j_s^s + 3)! \cdot (n-s)!} \cdot \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(n_{sa}+j_{sa}-s-j_{sa}^s-1)!}{(n_{sa}+j_{ik}-n-j_{sa}^s)! \cdot (n+j_{sa}-s-j_{ik}-1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{sa}}^{(n)} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 &\quad \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{(n)} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 &\quad \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \right. \\
 &\quad \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 &\quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right. \\
 &\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
& \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right)
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 1)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s - 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}-\mathbb{k}_2-1}$$

$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}-\mathbb{k}_2-1}{n_{sa}=n-j^{sa}+2}} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2 - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n-s)!}}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(2 \cdot n_{is} + j_s - n_{sa} - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2 - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n-s)!}}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1}$$

$$\frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!}.$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$



$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \quad \frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot k - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\ \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\ \frac{(2 \cdot n_{is} + j_s - n_{sa} - j_{ik} - s - 2 \cdot k - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\ \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\ \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\ \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\ \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\ \left. \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \left. \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \left( \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2 - 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
 & \left( \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2 - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{sa}}^{(n)} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{(n_{ik}-\mathbb{k}_2-1)} \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{(n)} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
&\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
&\quad \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right)
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(\mathbf{n}-j^{sa})!}{(\mathbf{n}+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \Big) \Big) \Big) \Big) \Big) - \\
& (D-s)! \cdot \frac{\iota-I}{\mathbf{n}-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (\mathbf{n}-s)!} \Big) - \\
& (D-s)! \cdot \frac{\iota-I}{\mathbf{n}-s-I+1} \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (\mathbf{n}+j_{sa}^s-s-j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$



$$\mathbf{s} = \mathbf{s} + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \left. \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \left. \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \right. \\
 & \left. \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \right. \\
 & \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \qquad \qquad \qquad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \qquad \qquad \qquad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \qquad \qquad \qquad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}}{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1)!} \cdot \frac{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)! \cdot (n - s)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \right)$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n-j^{sa}+2)}^{n_{ik}-\mathbb{k}_2-1}$$

$$\begin{aligned}
 & \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 & \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}-\mathbb{k}_2-1}{n_{sa}=n-j^{sa}+2}} \\
 & \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=1} \sum_{\binom{(n+j_{sa}^{ik}-s)}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{\binom{(n)}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}{n_{sa}=n-j^{sa}+2}}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 2)! \cdot (n - s)!}}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right)$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!}}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_s+j_{sa}-1}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-k_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-k_1)!} \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+2}^{(n+j_{sa}-s)} \right) \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}^{(n+j_{sa}-s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) \Big) -
 \end{aligned}$$

$$\begin{aligned}
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot k_2 - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$



$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_{ik}+1} \\ \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\ \frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot k_2 - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\ \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\ \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \\ \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j^{sa}=j_s+j_{sa}-1} \\ \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\ \left. \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
 & \left( \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_{sa} - j_s - s - 2 \cdot k - 2)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_{sa} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+1} \\
 & \left( \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \right) \\
 & \frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_{sa} - j_s - s - 2 \cdot k - 2)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_{sa} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{sa}}^{(n)} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \left. \frac{(n - j_{sa})!}{(n - s)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \right. \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_s+j_{sa}-1}^{(n)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-k_2-1} \\
 & \left. \frac{(n - j_s - j_{sa} + 1)!}{(n - j_s - s + 1)! \cdot (s - j_{sa})!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \right) +
 \end{aligned}$$

$$\frac{\sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s}}{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2}} \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!})}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i+n_{ik}-n_{sa}-s-2 \cdot k_2-k_1-2)!}{(n_i+n_{ik}+j_s-n_{sa}-n-2 \cdot k_2-k_1-j_{sa}^s-2)! \cdot (n-s)!} \cdot (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_{is}+n_{ik}-n_{sa}-s-2 \cdot k_2-k_1-2)!}{(n_{is}+n_{ik}+j_s-n_{sa}-n-2 \cdot k_2-k_1-j_{sa}^s-2)! \cdot (n+j_{sa}^s-s-j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 &\quad \frac{(n-j_{sa})!}{(n-s)! \cdot (s-j_{sa})!} \cdot \\
 &\quad \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_s+j_{sa}-1} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}-\mathbb{k}_2-1} \\
 &\quad \frac{(n-j_s-j_{sa}+1)!}{(n-j_s-s+1)! \cdot (s-j_{sa})!} \cdot \\
 &\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!} \\
 &\quad \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 &\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n-j^{sa})!}{(n+j_{sa}-j^{sa}-s)! \cdot (s-j_{sa})!} \\
 &\quad \left. \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} + \\
 & \qquad \qquad \qquad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+1} \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \qquad \qquad \qquad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j^{sa}=j_{ik}+2}^{n+j_{sa}-s} \right. \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) + \\
 & \qquad \qquad \qquad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+1}^{n+j_{sa}-s} \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_{sa}=n-j^{sa}+2}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n - j^{sa})!}{(n + j_{sa} - j^{sa} - s)! \cdot (s - j_{sa})!} \cdot
 \end{aligned}$$



$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}}{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 2)!} \cdot \frac{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j^{sa}=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )} \cdot \frac{(n_{is} + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 2)!}{(n_{is} + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{(n_s=n-j_i+2)}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)$$

$$\begin{aligned}
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}
\end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!} \right)_{j_i}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s \geq 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \right) \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-j_{s_a}^{i_k}+1)! \cdot (j_{s_a}^{i_k}-2)!} \cdot \frac{(j_i-j_{i_k}-1)!}{(j_i+j_{s_a}^{i_k}-j_{i_k}-s)! \cdot (s-j_{s_a}^{i_k}-1)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(n_i-s-\mathbb{k}-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n-s)!} - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(n_i-s-I)!}{(n_i-n-I)! \cdot (n-s-1)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{s_a}^{i_k}-s)} \sum_{(j_{i_k}=j_{s_a}^{i_k})} \sum_{j_i=j_{i_k}+s-j_{s_a}^{i_k}} \right. \right. \\
 \left. \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_i-j_{i_k}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \right) \right)$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_s-j_i-k-j_{sa}^s-1)!}{(n_i-n-k-1)! \cdot (n+j_s-j_i-j_{sa}^s)!} - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_s-j_i-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s-j_i-j_{sa}^s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
\end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+l_k-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-l_k} \\
 & \frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-j_{s_a}^{i_k}+1)! \cdot (j_{s_a}^{i_k}-2)!} \cdot \frac{(j_i-j_{i_k}-1)!}{(j_i+j_{s_a}^{i_k}-j_{i_k}-s)! \cdot (s-j_{s_a}^{i_k}-1)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-l_k} \\
 & \frac{(n_i+2 \cdot j_s+j_{s_a}^{i_k}-j_{i_k}-j_i-l_k-2 \cdot j_{s_a}^s-1)!}{(n_i-n-l_k-1)! \cdot (n+2 \cdot j_s+j_{s_a}^{i_k}-j_{i_k}-j_i-2 \cdot j_{s_a}^s)!} - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-l_k} \\
 & \frac{(n_i+2 \cdot j_s+j_{s_a}^{i_k}-j_{i_k}-j_i-I-2 \cdot j_{s_a}^s)!}{(n_i-n-I)! \cdot (n+2 \cdot j_s+j_{s_a}^{i_k}-j_{i_k}-j_i-2 \cdot j_{s_a}^s)!}
 \end{aligned}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge l_{k_z}: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{i_k}=j_{s_a}^{i_k})} \sum_{j_i=j_{i_k}+s-j_{s_a}^{i_k}}^{(n+j_{s_a}^{i_k}-s)} \right)$$

$$\begin{aligned}
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}} \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = n + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik})}^{(n + j_{sa}^{ik} - s)} \sum_{j_i = j_{ik} + s - j_{sa}^{ik} + 1}^n \right. \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-\mathbb{k}-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}{(n_i-n-I)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota+s) \cdot (\iota-I)}{n \cdot (\iota+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}
 \right)$$

$$\begin{aligned}
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}} \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = n + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
& \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik})}^{(n + j_{sa}^{ik} - s)} \sum_{j_i = j_{ik} + s - j_{sa}^{ik} + 1}^n \right. \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i+2 \cdot j_i+j_{sa}^s+j_{sa}^{ik}-j_s-j_{ik}-3 \cdot s-\mathbb{k}-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n+2 \cdot j_i+j_{sa}^s+j_{sa}^{ik}-j_s-j_{ik}-3 \cdot s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i+2 \cdot j_i+j_{sa}^s+j_{sa}^{ik}-j_s-j_{ik}-3 \cdot s-I)!}{(n_i-n-I)! \cdot (n+2 \cdot j_i+j_{sa}^s+j_{sa}^{ik}-j_s-j_{ik}-3 \cdot s)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \frac{(n_{ik}-n_s-k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{ik}-n_s-k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
&\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k - j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
&\quad \frac{(n_{ik}-n_s-\mathbb{k}-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{ik}-n_s-\mathbb{k}-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}
\end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1}^{(\quad)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
&\quad \left. \frac{(n_{ik}-n_s-\mathbb{k}-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \frac{(n_{ik}-n_s-\mathbb{k}-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right)
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_s+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i+2 \cdot j_{ik}+j_{sa}^s-j_s-j_i-2 \cdot j_{sa}^{ik}-\mathbb{k}-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n+2 \cdot j_{ik}+j_{sa}^s-j_s-j_i-2 \cdot j_{sa}^{ik})!} \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}
 \end{aligned}$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right. \\ \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \right. \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\ \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\ \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\ \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \quad \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \quad \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \quad \frac{(n_i+j_{ik}-j_i-k-j_{sa}^{ik}-1)!}{(n_i-n-k-1)! \cdot (n+j_{ik}-j_i-j_{sa}^{ik})!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1}^{(\cdot)} \\ \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}^{(\cdot)} \\ \frac{(n_i+j_{ik}-j_i-I-j_{sa}^{ik})!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+j_{ik}-j_i-j_{sa}^{ik})!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{(\cdot)} \right. \right. \\ \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \\ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\ \left. \frac{(n_{ik}-n_s-\mathbb{k}-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \right) + \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{(\cdot)} \\ \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\ \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}$$

$$\begin{aligned}
 & \left( \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!} \cdot$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s-2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik}-j_s-1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$



$$\begin{aligned}
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_s^a} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \left( \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} \right)_{j_i} -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \left( \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!} \right)_{j_i}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\ \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\ \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i-s-k-1)!}{(n_i-n-k-1)! \cdot (n-s)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{is}^{lk}-1)}^{(\cdot)} \sum_{j_i=j_{ik}+1}^{(\cdot)}$$

$$\sum_{(n_i=\mathbf{n}+lk+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{(\cdot)}$$

$$\frac{(n_i-s-I)!}{(n_i-\mathbf{n}-I)! \cdot (n-s-1)!}$$

$$D = \mathbf{n} < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s+1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(\cdot)} \right. \right.$$

$$\sum_{(n_i=\mathbf{n}+lk+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-lk-1}$$

$$\left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} + \right.$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(\cdot)}$$

$$\sum_{(n_i=\mathbf{n}+lk+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-lk-1}$$

$$\left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_s-j_{ik}-k-j_{sa}^s-2)!}{(n_i-n-k-1)! \cdot (n+j_s-j_{ik}-j_{sa}^s-1)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(\cdot)} \sum_{j_i=j_{ik}+1}^{(\cdot)}$$

$$\sum_{(n_i=\mathbf{n}+lk+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{(\cdot)}$$

$$\frac{(n_i+j_s-j_{ik}-I-j_{sa}^s-1)!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+j_s-j_{ik}-j_{sa}^s-1)!}$$

$$D = \mathbf{n} < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(\cdot)}$$

$$\sum_{(n_i=\mathbf{n}+lk+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-lk-1} \right.$$

$$\left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} + \right.$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(\cdot)}$$

$$\sum_{(n_i=\mathbf{n}+lk+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-lk-1} \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_l-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(n_i+2 \cdot j_s+j_{sa}^{ik}-2 \cdot j_i-l_k-2 \cdot j_{sa}^s)!}{(n_i-n-l_k-1)! \cdot (n+2 \cdot j_s+j_{sa}^{ik}-2 \cdot j_i-2 \cdot j_{sa}^s+1)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i+2 \cdot j_s+j_{sa}^{lk}-2 \cdot j_i-I-2 \cdot j_{sa}^s+1)!}{(n_i-n-I)! \cdot (n+2 \cdot j_s+j_{sa}^{lk}-2 \cdot j_i-2 \cdot j_{sa}^s+1)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\ \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \right. \\ \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\ \left. \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +$$



$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_{ik}+j_{sa}^s-j_s-2 \cdot s-k)!}{(n_i-n-k-1)! \cdot (n+j_{ik}+j_{sa}^s-j_s-2 \cdot s+1)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i+j_{ik}+j_{sa}^s-j_s-2 \cdot s-I+1)!}{(n_i-n-I)! \cdot (n+j_{ik}+j_{sa}^s-j_s-2 \cdot s+1)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \right. \\ \left. \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \right. \\ \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right. \\ \left. (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \left. \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \right. \\ \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\ \left. \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_i+j_{sa}^s+j_{sa}^{ik}-j_s-3 \cdot s-k)!}{(n_i-n-k-1)! \cdot (n+j_i+j_{sa}^s+j_{sa}^{ik}-j_s-3 \cdot s+1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{lk} - j_s - 3 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{lk} - j_s - 3 \cdot s + 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\ \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\ \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-k-j_{sa}^s-1)!}{(n_i-n-k-1)! \cdot (n+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^s)!} -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i+j_s+j_{sa}^{lk}-j_{ik}-s-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s+j_{sa}^{lk}-j_{ik}-s-j_{sa}^s)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\ \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\ \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right) \\ \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_i+j_{sa}^s-j_s-j_{sa}^{ik}-s-k-2)!}{(n_i-n-k-1)! \cdot (n+j_i+j_{sa}^s-j_s-j_{sa}^{ik}-s-1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{lk} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{lk} - s - 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

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$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\ \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\ \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$



$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_{ik}+j_{sa}^s-j_s-2 \cdot j_{sa}^{ik}-k-2)!}{(n_i-n-k-1)! \cdot (n+j_{ik}+j_{sa}^s-j_s-2 \cdot j_{sa}^{ik}-1)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i+j_{ik}+j_{sa}^s-j_s-2 \cdot j_{sa}^{ik}-I-1)!}{(n_i-n-I)! \cdot (n+j_{ik}+j_{sa}^s-j_s-2 \cdot j_{sa}^{ik}-1)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

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$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\ \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\ (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \right. \\ \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\ \left. \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i-k-j_{sa}^{ik}-2)!}{(n_i-n-k-1)! \cdot (n-j_{sa}^{ik}-1)!} -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_i - I - j_{sa}^{ik} - 1)!}{(n_i - n - I)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \\ \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\ \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i+j_{sa}^{ik}-2 \cdot s-k)!}{(n_i-n-k-1)! \cdot (n+j_{sa}^{ik}-2 \cdot s+1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1}^{( )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+1}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}^{( )}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{( )} \right) \right.$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{( )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$

$$\begin{aligned}
 & \left( \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{ik=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}
 \end{aligned}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i + j_s - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}^{( )} \frac{(n_{is} - s - \mathbb{k} - 1)!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)$$



$$\begin{aligned}
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_s - s - k - j_{sa}^s - 1)!}{(n_i + j_s - n - k - j_{sa}^s - 1)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{( )} \sum_{j_i=j_{ik}+1}^{( )}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}$$

$$\frac{(n_{is} - s - lk - 1)!}{(n_{is} + j_s - n - lk - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge lk_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{lk}-s)} \sum_{(j_{ik}=j_{sa}^{lk})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{lk}}^{( )} \right. \right.$$

$$\left. \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-lk} \right.$$

$$\left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{lk})! \cdot (j_{sa}^{lk} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right.$$

$$\left. \frac{(n_{ik} - n_s - lk - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - lk)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right.$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(n+j_{sa}^{lk}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{lk}}^{( )}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-lk}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{lk} + 1)! \cdot (j_{sa}^{lk} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$

$$\begin{aligned}
 & \left( \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}
 \end{aligned}$$

$$\frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{ik} - j_s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \right. \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s-1)!} \cdot \frac{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s-1)! \cdot (n+j_{sa}^{ik}-s-j_{ik})!}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}^{(\ )}}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s-1)!} \cdot \frac{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s-1)! \cdot (n+j_{sa}^{ik}-s-j_{ik})!}{(n_i-n_{ik}-1)! \cdot (n_s-1)!} +$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z; z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(j_{ik}-2)!} \cdot \frac{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{(\ )}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_i-n_{ik}-1)! \cdot (n_s-1)!} +$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \right. \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) -
 \end{aligned}$$

$$\begin{aligned}
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 1)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s + 1)! \cdot (n-s)!} \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}
\end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+l_k-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-l_k} \\
 & \frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-j_{s_a}^{i_k}+1)! \cdot (j_{s_a}^{i_k}-2)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!} \\
 & \left. \frac{(n_{i_k}-n_s-l_k-1)!}{(j_i-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_s-j_i-l_k)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{s_a}^{i_k}-s)} \sum_{(j_{i_k}=j_{s_a}^{i_k})}^{(n)} \sum_{j_i=j_{i_k}+s-j_{s_a}^{i_k}+1}^n \right) \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{i_k}=n+l_k-j_{i_k}+2)}^{(n_i-j_{i_k}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-l_k} \\
 & \frac{(j_{i_k}-2)!}{(j_{i_k}-j_{s_a}^{i_k})! \cdot (j_{s_a}^{i_k}-2)!} \cdot \frac{(j_i-j_{i_k}-1)!}{(j_i+j_{s_a}^{i_k}-j_{i_k}-s)! \cdot (s-j_{s_a}^{i_k}-1)!} \\
 & \frac{(n_i-n_{i_k}-1)!}{(j_{i_k}-2)! \cdot (n_i-n_{i_k}-j_{i_k}+1)!} \\
 & \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n+j_{s_a}^{i_k}-s)} \sum_{j_i=j_{i_k}+s-j_{s_a}^{i_k}+1}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+l_k-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-l_k} \\
 & \frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-j_{s_a}^{i_k}+1)! \cdot (j_{s_a}^{i_k}-2)!} \cdot \frac{(j_i-j_{i_k}-1)!}{(j_i+j_{s_a}^{i_k}-j_{i_k}-s)! \cdot (s-j_{s_a}^{i_k}-1)!} \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{ik} - j_{ik} - s - \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right.$$

$$\left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left( \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_{ik} + j_i - j_s - s - \mathbb{k} - 2)!}{(n_{ik} + j_i - n - \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_{ik} + j_i - j_s - s - \mathbb{k} - 2)!}{(n_{ik} + j_i - n - \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \right.$$

$$\left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \right.$$

$$\left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right)$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left( \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0 S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1} \right. \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \\
& \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left( \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - \mathbb{k} + 2)!}{(2 \cdot n_i - n_{ik} - j_i - n - \mathbb{k} - j_{sa}^s + 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\cdot)}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\cdot)}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right.$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{n_i-j_{ik}+1}{n_{ik}=n+\mathbb{k}-j_{ik}+2}} \sum_{n_s=n-\mathbb{k}-1}^{n_{ik}-\mathbb{k}-1}$$

$$\left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right)$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left( \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_i + j_s - n_{ik} - j_i - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_i - n - \mathbb{k} - j_{sa}^s)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{ik} - j_i - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_i - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \right. \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^n \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \right. \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_i)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_i)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \right) \right)$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n-s)!} - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_i)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right. \\
 \left. \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \right) \right)$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j_i = s)} \\
 & \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1} \\
 & \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} - j_i)!}
 \end{aligned}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}} \right. \right. \\
 & \left. \left. \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned} & \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\ & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\ & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) - \\ & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 1}^{l - I} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j_i = s)} \\ & \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\ & \frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} - \\ & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1} \\ & \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\ & \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!} \end{aligned}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}} \right. \right. \\ \left. \left. \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \right) \right)$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right)
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}}}{\frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}} -$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n+j_{sa}^s - s - j_s)!}}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \right)$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}} \right. \\
& \left. \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \right)
\end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) - \\
& (D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s = 1}^{t - I} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j_i = s)} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} - \\
& (D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1} \\
& \sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik})}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(n_{is} + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s = 1}^{(n-1)} \sum_{(j_{ik} = s - 1)} \sum_{j_i = j_{ik} + 1}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

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$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Bigg) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

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$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
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 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=j_{i_k}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_{i_k} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i - n_s - j_{i_k} - n - 2 \cdot \mathbb{k} - j_{s_a}^s)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n)} \sum_{j_i=j_{i_k}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(n_s - j_{s_a}^s - 1)!}{(n_s + j_{i_k} - n - j_{s_a}^s)! \cdot (n - j_{i_k} - 1)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{i_k} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

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$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{i_k}=s-1)} \sum_{j_i=j_{i_k}+1} \right)$$



$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Big) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=j_{i_k}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_i - n_{i_k} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{i_k} - n_s - 2 \cdot j_i - n - 2 \cdot \mathbb{k} - j_{s_a}^s + 3)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n)} \sum_{j_i=j_{i_k}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(n_s - j_{s_a}^s - 1)!}{(n_s + j_{i_k} - n - j_{s_a}^s)! \cdot (n - j_{i_k} - 1)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{i_k} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{i_k} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{i_k}=s-1)} \sum_{j_i=j_{i_k}+1} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Bigg) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

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$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
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 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned} & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\ & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\ & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ & \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!} - \\ & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\ & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ & \frac{(2 \cdot n_{is} + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!} \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

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 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Big) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=j_{i_k}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_i - n - 2 \cdot \mathbb{k} - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n)} \sum_{j_i=j_{i_k}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_{i_s} + 2 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{i_s} + 3 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_i - n - 2 \cdot \mathbb{k} - 1)! \cdot (n + j_{s_a}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{i_k} = j_i - 1 \vee$

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$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Big) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

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 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_i=j_{i_k}^{i_k}} \sum_{(j_i=j_{i_k}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_{i_k} - s - 2 \cdot \mathbb{k} - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_{i_k} - n - 2 \cdot \mathbb{k} - j_{i_k}^s - 2)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{i_k}^{i_k}-1)}^{(n)} \sum_{j_i=j_{i_k}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_{i_s} + 2 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_{i_k} - s - 2 \cdot \mathbb{k} - 2)!}{(3 \cdot n_{i_s} + 3 \cdot j_s - n_{i_k} - n_s - 2 \cdot j_{i_k} - n - 2 \cdot \mathbb{k} - j_{i_k}^s - 2)! \cdot (n + j_{i_k}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{i_k} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{i_k} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{i_k}=s-1)}^{(n-1)} \sum_{j_i=j_{i_k}+1} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Big) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \left. \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=j_{i_k}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}+1)}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(2 \cdot n_{i_k} + j_{i_k} - n_s - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{i_k} + j_{i_k} - n_s - n - 2 \cdot \mathbb{k} - j_{s_a}^s - 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n)} \sum_{j_i=j_{i_k}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k})}^{(n)} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}} \\
 & \frac{(2 \cdot n_{i_k} + j_{i_k} - n_s - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{i_k} + j_{i_k} - n_s - n - 2 \cdot \mathbb{k} - j_{s_a}^s - 2)! \cdot (n + j_{s_a}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{i_k} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{i_k} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{i_k}=s-1)}^{(n-1)} \sum_{j_i=j_{i_k}+1} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Bigg) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_i+n_{ik}-n_s-s-2 \cdot \mathbb{k}-2)!}{(n_i+n_{ik}+j_s-n_s-n-2 \cdot \mathbb{k}-j_{sa}^s-2)! \cdot (n-s)!} - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_{is}+n_{ik}-n_s-s-2 \cdot \mathbb{k}-2)!}{(n_{is}+n_{ik}+j_s-n_s-n-2 \cdot \mathbb{k}-j_{sa}^s-2)! \cdot (n+j_{sa}^s-s-j_s)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(\iota+s) \cdot (\iota-I)}{n \cdot (\iota+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right. \\
 \left. \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \right) \right)$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
\end{aligned}$$

$$\begin{aligned}
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) \Bigg) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{\iota - I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \left( \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!} \right)_{j_i} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \left( \frac{(n_i - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} - s)!} \right)_{j_i}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$



$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
 &\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 &\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 &\quad \left. \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \cdot \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 &\quad \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1}
 \end{aligned}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge l = l = 1 \wedge s = s + 1 \vee$$

$$l = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge l = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - l)}{n \cdot (l + s - l)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!}$$

$$\frac{(n_i - n_{ik} - 1)! \cdot (n_{ik} - n_s - \mathbb{k} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)! \cdot (j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!}$$

$$\frac{(n_i - n_{is} - 1)! \cdot (n_{is} - n_{ik} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)! \cdot (j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$

$$\frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_i + j_s - j_i - k - j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z : z = 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right) \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
\end{aligned}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k - 2 \cdot j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - I - 2 \cdot j_{sa}^s)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_s-k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k)!} \cdot \\
& \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
& \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
& \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}
\end{aligned}$$



$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right.$$

$$\left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right)$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
\end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \\
&\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
&\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)}
\end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k - j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}
 \end{aligned}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right.$$

$$\left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \right.$$

$$\left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \right.$$

$$\left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.$$

$$\left. (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right.$$

$$\left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \right.$$

$$\left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right.$$

$$\left. \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \right)$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \quad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!} \cdot \frac{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}^{(\ )}}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I)!} \cdot \frac{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z = z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)}}{(j_{ik} - 2)! \cdot (j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)! \cdot (n_{ik} - n_s - \mathbb{k} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)! \cdot (j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$



$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s=n+l_k-j_s+2}}^{n_i-j_s+1} \sum_{(n_{i_k=n+l_k-j_{i_k}+2})}^{(n_{i_s+j_s-j_{i_k}})} \sum_{n_s=n-j_i+2}^{n_{i_k+j_{i_k}-j_i-l_k} (n-j_i+1)} \sum_{(i=2)} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \cdot \\
 & \frac{(n_{i_k} - n_s - l_k - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i - l_k)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{s_a}^{i_k}-s)} \sum_{(j_{i_k}=j_{s_a}^{i_k})} \sum_{j_i=j_{i_k}+s-j_{s_a}^{i_k}+1}^n \right) \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{i_k=n+l_k-j_{i_k}+2})}^{(n_i-j_{i_k}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k+j_{i_k}-j_i-l_k} (n-j_i+1)} \sum_{(i=2)} \\
 & \frac{(j_{i_k} - 2)!}{(j_{i_k} - j_{s_a}^{i_k})! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(j_i - j_{i_k} - 1)!}{(j_i + j_{s_a}^{i_k} - j_{i_k} - s)! \cdot (s - j_{s_a}^{i_k} - 1)!} \cdot \\
 & \frac{(n_i - n_{i_k} - 1)!}{(j_{i_k} - 2)! \cdot (n_i - n_{i_k} - j_{i_k} + 1)!} \cdot \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(n+j_{s_a}^{i_k}-s)} \sum_{j_i=j_{i_k}+s-j_{s_a}^{i_k}+1}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s=n+l_k-j_s+2}}^{n_i-j_s+1} \sum_{(n_{i_k=n+l_k-j_{i_k}+2})}^{(n_{i_s+j_s-j_{i_k}})} \sum_{n_s=n-j_i+2}^{n_{i_k+j_{i_k}-j_i-l_k} (n-j_i+1)} \sum_{(i=2)} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - j_{s_a}^{i_k} + 1)! \cdot (j_{s_a}^{i_k} - 2)!} \cdot \frac{(j_i - j_{i_k} - 1)!}{(j_i + j_{s_a}^{i_k} - j_{i_k} - s)! \cdot (s - j_{s_a}^{i_k} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}^0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right. \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \right) \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
& \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
& \frac{(n_i+j_{ik}-j_i-k-j_{sa}^{ik}-1)!}{(n_i-n-k-1)! \cdot (n+j_{ik}-j_i-j_{sa}^{ik})!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
& \frac{(n_i+j_{ik}-j_i-I-j_{sa}^{ik})!}{(n_i-n-I)! \cdot (n+j_{ik}-j_i-j_{sa}^{ik})!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
 &\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 &\quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 &\quad \left. \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \right) + \\
 &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 &\quad \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k} \\
& \frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - l_k - 1)!}{(n_i - n - l_k - 1)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!} - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1}
\end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\ &\quad \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) + \\ &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\ &\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \Bigg) + \\ &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \end{aligned}$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_s^a}^{ik} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}
 \end{aligned}$$



$$\left( \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{i_s}^{lk}-1)}^{( )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\left( \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!} \right)_{j_i}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \right.$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k}$$

$$\frac{(n_i - s - l_k - 1)!}{(n_i - n - l_k - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s - 1)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{kz}: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_k-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+l+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}$$

$$\frac{(n_i + j_s - j_{ik} - lk - j_{sa}^s - 2)!}{(n_i - n - lk - 1)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{( )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+l+1)}^{(n)} \sum_{n_{is}=n+l-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}$$

$$\frac{(n_i + j_s - j_{ik} - I - j_{sa}^s - 1)!}{(n_i - n - I)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{D\theta SD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+l+1)}^{(n)} \sum_{(n_{ik}=n+l-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}
\end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n+\mathbb{k}+1)} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k})} \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n+\mathbb{k}+1)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k})} \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - I - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1}$$

$$\begin{aligned}
 & \sum_{(n_i = n + k + 1)}^{(n)} \sum_{(n_{ik} = n + k - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} - k - 1} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + s - 2)}^{(n - 1)} \sum_{j_i = j_{ik} + 1} \\
 & \sum_{(n_i = n + k + 1)}^{(n)} \sum_{n_{is} = n + k - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k - j_{tk} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = n - j_i + 2}^{n_{ik} - k - 1} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s = 1}^{(n - 1)} \sum_{(j_{ik} = s - 1)} \sum_{j_i = j_{ik} + 2}^n \right) \\
 & \sum_{(n_i = n + k + 1)}^{(n)} \sum_{(n_{ik} = n + k - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - k)!}{(n_i - n - k - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
&\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
&\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right)
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_l-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-l_k-j_{sa}^s-1)!}{(n_i-n-l_k-1)! \cdot (n+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned} {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\ & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\ & \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) + \\ & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\ & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\ & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\ & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\ & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\ & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \end{aligned}$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right. \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_s^a}^{ik} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}
 \end{aligned}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+1}^{(n)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}^{(n)} \frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \cdot (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!}$$



$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_s^{lk}} \sum_{(j_i=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!} \cdot (n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 2)!$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!} \cdot (n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - I - 1)!$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s=n+k-j_s+2}}^{n_i-j_s+1} \sum_{(n_{i_k=n+k-j_{ik}+2})}^{(n_{i_s+j_s-j_{ik}})} \sum_{n_s=n-j_i+2}^{n_{i_k}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{ik})!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{n-1} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{i_k=n+k-j_{ik}+2})}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_k}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{i_k}-j_{ik}+1)!} \cdot \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{i_k}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s=n+k-j_s+2}}^{n_i-j_s+1} \sum_{(n_{i_k=n+k-j_{ik}+2})}^{(n_{i_s}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{ik})!} \cdot \\
 & \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{i_k}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i - k - j_{sa}^{ik} - 2)!}{(n_i - n - k - 1)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$(D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i - I - j_{sa}^{ik} - 1)!}{(n_i - n - I)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(i + s) \cdot (i - I)}{n \cdot (i + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k})!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1} \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!} -$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{n+j_{sa}^{ik}-s}{j_{ik}=j_{sa}^{ik}}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}-j_{ik}+2}} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{n-j_i+1} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \right)$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) \Bigg) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \sum_{j_s=1} \sum_{ik=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i + j_s - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(n_{is} - s - \mathbb{k} - 1)!}{(n_{is} + j_s - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$



$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 &\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 &\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + j_s - s - k - j_{sa}^s - 1)!}{(n_i + j_s - n - k - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_{is} - s - k - 1)!}{(n_{is} + j_s - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge l = l = 1 \wedge s = s + 1 \vee$$

$$l = k + 1 \wedge s > 1 \wedge k > 0 \wedge l = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k)!} \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 &\quad \left. \frac{(n_{ik}-n_s-k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k)!} \right) + \\
 &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(n_{ik}+j_{ik}-j_s-s-\mathbb{k}-1)!}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s-1)! \cdot (n-s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}^{( )}$$

$$\frac{(n_{ik} + j_{ik} - j_s - k - 1)!}{(n_{ik} + j_{ik} - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{( )} \right. \right.$$

$$\left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right.$$

$$\left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \right.$$

$$\left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{( )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \quad \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \quad \left. \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \right) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$

$${}^0S_0^{D OSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right)
 \end{aligned}$$



$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 1)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
\end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(2 \cdot n_{is} + j_s - n_{ik} - j_{ik} - s - k - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{ik} - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 &\quad \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 &\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k}^{(n-j_i+1)} \sum_{(i=2)}^{(n)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_{ik} + j_i - j_s - s - k - 2)!}{(n_{ik} + j_i - n - k - j_{sa}^s - 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_{ik} + j_i - j_s - s - k - 2)!}{(n_{ik} + j_i - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) + \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\
&\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
&\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) \right) + \\
&\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right)
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_l-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(n_{ik}+j_{sa}^{ik}-s-l_k-j_{sa}^s-1)!}{(n_{ik}+j_i-n-l_k-j_{sa}^s-2)! \cdot (n+j_{sa}^{ik}-s-j_i+1)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) + \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right) + \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) +$$



$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - k + 2)!}{(2 \cdot n_i - n_{ik} - j_i - n - k - j_{sa}^s + 2)! \cdot (n-s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_{ik} + j_{sa}^{lk} - s - lk - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - lk - j_{sa}^s - 2)! \cdot (n + j_{sa}^{lk} - s - j_i + 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \sum_{(i=2)}^{(n-j_i+1)} \\ \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \sum_{(i=2)}^{(n-j_i+1)} \\ \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} + j_s - n_{ik} - j_{ik})!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \quad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j_i=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(2 \cdot n_i + j_s - n_{ik} - j_i - s - k)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_i - n - k - j_{sa}^s)! \cdot (n - s)!}}{(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}^{(\ )}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(2 \cdot n_{is} + j_s - n_{ik} - j_i - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_i - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \right)$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{D \circ s D} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right.$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \right) +$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \left. (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right)
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} - j_i)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} - j_i)!}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \right.$$

$$\left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \right)$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k + 1)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_i)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-l_k-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-l_k)!} \cdot \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_i)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} (2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\frac{\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} (2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z : z = 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right.$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!}$$

$$\left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \right)$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$



$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}^0S_0^{D OSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - k - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \right)
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge k_z: z = 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_{is} + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot k - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{(n-1)} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1} \right. \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\ &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\ &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) \right) + \\ &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right) \end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_l-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_k} \\
 & \frac{(n_s-j_{sa}^s-1)!}{(n_s+j_{ik}-n-j_{sa}^s)! \cdot (n-j_{ik}-1)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) \\ &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\ &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \end{aligned}$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) - \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot k)!}{(2 \cdot n_i - n_s - j_{ik} - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk}^{()} \\ \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \right. \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \sum_{(i=2)}^{(n-j_i+1)} \\ \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{()} \\ \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-lk-1} \sum_{(i=2)}^{(n-j_i+1)} \\ \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \quad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j_i=j_{ik}+1)}
 \end{aligned}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot k + 3)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - j_{sa}^s + 3)! \cdot (n - s)!}}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s=n+k-j_s+2}}^{n_i-j_s+1} \sum_{(n_{i_k=n+k-j_{ik}+2})}^{(n_{i_s+j_s-j_{ik}})} \sum_{n_s=n-j_i+2}^{n_{i_k}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{ik})!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{i_k=n+k-j_{ik}+2})}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_k}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{i_k}-j_{ik}+1)!} \cdot \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{i_k}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s=n+k-j_s+2}}^{n_i-j_s+1} \sum_{(n_{i_k=n+k-j_{ik}+2})}^{(n_{i_s}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{ik})!} \cdot \\
 & \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{i_k}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_{ik} - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$



$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{j_i=j_{ik}+1} \sum_{\substack{(n) \\ (n_i=\mathbf{n}+\mathbb{k}+1)}} \sum_{\substack{(\cdot) \\ (n_{ik}=\mathbf{n}_i-j_{ik}+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!} \\ (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_{ik}+1} \sum_{\substack{(n) \\ (n_i=\mathbf{n}+\mathbb{k}+1)}} \sum_{\substack{n_i-j_s+1 \\ (n_{is}=\mathbf{n}+\mathbb{k}-j_s+2)}} \sum_{\substack{(\cdot) \\ (n_{ik}=\mathbf{n}_{is}+j_s-j_{ik})}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(2 \cdot n_{is} + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \sum_{\substack{(n) \\ (n_i=\mathbf{n}+\mathbb{k}+1)}} \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+2)}} \sum_{\substack{n_{ik}-\mathbb{k}-1 \\ (n_s=\mathbf{n}-j_i+2)}} \sum_{(i=2)}^{(n-j_i+1)} \right)$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
& \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot \mathbb{k} - 1)! \cdot (n-s)!} - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
& \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot \mathbb{k} - 1)! \cdot (n+j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_i=j_s^k} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^k-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-k-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right)
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_i - j_{ik} + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \sum_{(i=2)}^{(n - j_i + 1)} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + s - 2)}^{(n - 1)} \sum_{j_i = j_{ik} + 2}^n \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = n + \mathbb{k} - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik})} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}} \sum_{(i=2)}^{(n - j_i + 1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_s^{\mathbb{k}}} \sum_{(j_i = j_{ik} + 1)} \\
& \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}} \\
& \frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot \mathbb{k} - j_s^s - 2)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_s^{\mathbb{k}} - 1)}^{(\ )} \sum_{j_i = j_{ik} + 1}
\end{aligned}$$



$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+1} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right) \\ &\quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+1} \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\ &\quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \end{aligned}$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s-1)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_i-j_{ik}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-1)} \sum_{j_i=j_{ik}+2}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k-j_{ik}+2)}^{(n_{is}+j_s-j_{ik})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
 & \frac{(n_i + n_{ik} - n_s - s - 2 \cdot k - 2)!}{(n_i + n_{ik} + j_s - n_s - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$

$$\begin{aligned}
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1} \\
& \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk} \\
& \frac{(n_{is} + n_{ik} - n_s - s - 2 \cdot lk - 2)!}{(n_{is} + n_{ik} + j_s - n_s - n - 2 \cdot lk - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
\end{aligned}$$

GÜLDÜNYA

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
&\quad \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
&\quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
&\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
&\quad \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
&\quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n
 \end{aligned}$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 2)}^{(n_{i_s} + j_s - j_{ik} - \mathbb{k}_1)} \sum_{n_s = \mathbf{n} - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}_2}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!}$$

$$\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik})!}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}_2}$$

$$\left( \frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1}$$

$$\sum_{(n_i = \mathbf{n} + \mathbb{k} + 1)}^{(n)} \sum_{n_{i_s} = \mathbf{n} + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{i_s} + j_s - j_{ik} - \mathbb{k}_1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \mathbb{k}_2}$$

$$\left( \frac{(n_i - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} = & \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n-s+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
& \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
& \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
& \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right.
\end{aligned}$$



$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}
\end{aligned}$$

$$\begin{aligned}
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \quad \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}^{( )}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s - 1)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=s}^{( )} \right)$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \left. \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right) \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n - s - 1)!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 &\quad \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 &\quad \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 &\quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \right) \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n
\end{aligned}$$



$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+\mathbb{k}_2-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}_2}$$

$$\frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-j_{s_a}^{i_k}+1)! \cdot (j_{s_a}^{i_k}-2)!} \cdot \frac{(j_i-j_{i_k}-1)!}{(j_i+j_{s_a}^{i_k}-j_{i_k}-s)! \cdot (s-j_{s_a}^{i_k}-1)!}$$

$$\frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!}$$

$$\frac{(n_{i_k}-n_s-1)!}{(j_i-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Bigg) -$$

$$(D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i+j_s-j_i-\mathbb{k}-j_{s_a}^s-1)!}{(n_i-n-\mathbb{k}-1)! \cdot (n+j_s-j_i-j_{s_a}^s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i+j_s-j_i-l-j_{s_a}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{s_a}^s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-l)}{n \cdot (l+s-l)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \right. \\
&\quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
&\quad \left. \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \right. \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\
&\quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
&\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
&\quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
&\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
&\quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right.
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right.
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_i - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_s+s-1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_i - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_{ik}-k_1+1}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k - 2 \cdot j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}^{()} \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - I - 2 \cdot j_{sa}^s)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_i=s}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right)$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}^{()} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k_1 - k_2 - 2 \cdot j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(i + s) \cdot (i - I)}{n \cdot (i + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}^{( )} \right. \\
 &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 &\quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} + \\
 &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) + \\
 &\quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{j_{ik}^{ik}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right.
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_{i=n+k+1})}^{(n)} \sum_{(n_{ik=n_i-j_{ik}-k_1+1})}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_{i=n+k+1})}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_{i=n+k+1})}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
 \end{aligned}$$



$$\begin{aligned}
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}^{( )} \right.$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +$$

$$\left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right.$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
& \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{j_{ik}^{ik}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-k-j_{sa}^s-1)!}{(n_i-n-k-1)! \cdot (n+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{\binom{)}{}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{\binom{)}{}} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
&\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{\binom{)}{}} \sum_{j_i=j_s+s-1} \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{\binom{)}{}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
&\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{)}{}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
&\quad \sum_{(n_i=n+\mathbb{k}+1)}^{\binom{)}{}} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
&\quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
&\quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$



$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n-s+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right.
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right) \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}^{( )}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=s}^{( )} \right)$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}_1+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} = & \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}^{( )} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right) \right)
 \end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{j_{ik}^{ik}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big) \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!} \cdot \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_{sa} - 2 \cdot j_{sa}^{ik} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_{sa} - 2 \cdot j_{sa}^{ik})!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$$\mathbf{s} = \mathbf{s} + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 &\quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
 &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 &\quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\ )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 &\quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 &\quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n-s+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right.
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

$$(D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(i + s) \cdot (i - I)}{n \cdot (i + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - l}{n - s - l + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i + j_{ik} - j_i - k - j_{sa}^{ik} - 1)!}{(n_i - n - k - 1)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1} (n) \sum_{(n_i=n+k+1)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} - j_i - I - j_{sa}^{ik})!}{(n_i - n - I)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right.$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1} (n) \sum_{(n_i=n+k+1)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$



$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(n_i + j_{ik} - j_i - l_{k_1} - l_{k_2} - j_{sa}^{ik} - 1)!}{(n_i - n - l_{k_1} - l_{k_2} - 1)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+l_{k_1}+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}
 \end{aligned}$$

$$\frac{(n_i + j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}^{( )} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 &\quad \left. (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \right. \\
 &\quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \right. \\
 &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 &\quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{j_{ik}^{ik}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \Bigg) \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i+j_i+j_{sa}^{ik}-j_{ik}-2 \cdot s-k-1)!}{(n_i-n-k-1)! \cdot (n+j_i+j_{sa}^{ik}-j_{ik}-2 \cdot s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i+j_i+j_{sa}^{ik}-j_{ik}-2 \cdot s-I)!}{(n_i-n-I)! \cdot (n+j_i+j_{sa}^{ik}-j_{ik}-2 \cdot s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n-s+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \right. \\
 & \left. \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \right.
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. + \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s\bar{a}}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left( \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} \right)_{j_i} -
 \end{aligned}$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{ik}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\left( \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!} \right)_{j_i}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$$

$$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!} \cdot$$

$$\left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z : z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z : z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s\bar{a}}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+1+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i-s-l_{k_1}-l_{k_2}-1)!}{(n_i-n-l_{k_1}-l_{k_2}-1)! \cdot (n-s-1)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_2}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \wedge j_{ik} = j_i - 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$$

$$s = s + l_k + 1 \wedge l_{k_2}: z = 1 \wedge l_k = l_{k_2} \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_{k_2}-1}$$

$$\frac{(n_i-n_{ik}-l_{k_1}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-l_{k_1}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_{k_2}-1}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-l_{k_1}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-l_{k_1})!}$$

$$\left. \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + j_s - j_{ik} - \mathbb{k} - j_{sa}^s - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + j_s - j_{ik} - I - j_{sa}^s - 1)!}{(n_i - n - I)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_{ik} - k_1 - k_2 - j_{sa}^s - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_{ik} - k_1 - k_2 - j_{sa}^s - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z : z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z : z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. + \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - k - 2 \cdot j_{sa}^s)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{lk} - 2 \cdot j_i - I - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa}^{lk} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - k)!}{(n_i - n - k - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. + \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!} -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - lk_1 - lk_2)!}{(n_i - n - lk_1 - lk_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$$

$$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!}$$

$$\left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}}^{n_i-j_{ik}-\mathbb{k}_1+1} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - k - j_{sa}^s)!}{(n_i - n - k - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{lk} - j_i - s - I - j_{sa}^s + 1)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{lk} - j_i - s - j_{sa}^s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!}$$

$$\left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 2)!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - I - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{n_i-j_{ik}-\mathbb{k}_1+1}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}} \sum_{n_s=\mathbf{n}-j_i+2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. + \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!}$$

$$\left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1}^l \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(n)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - I - 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \binom{(\cdot)}{\cdot} \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \binom{(\cdot)}{\cdot} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \binom{(\cdot)}{\cdot} \right. \right. \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{(\ )}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}}^{n_i-j_{ik}-\mathbb{k}_1+1} \sum_{n_s=\mathbf{n}-j_i+2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - k - j_{sa}^{ik} - 2)!}{(n_i - n - k - 1)! \cdot (n - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - I - j_{sa}^{ik} - 1)!}{(n_i - n - I)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!}$$

$$\left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \quad \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \right. \\
& \quad \left. \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \right. \\
& \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
& \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
& \quad \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
& \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
& \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - k_1 - k_2 - j_{sa}^{ik} - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - j_{sa}^{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - k_1 - k_2 - j_{sa}^{ik} - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s_a}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{s_a}^{ik} - 2 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + j_{s_a}^{ik} - 2 \cdot s + 1)!} -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{s_a}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{s_a}^{ik} - 2 \cdot s - I + 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_{s_a}^{ik} - 2 \cdot s + 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{()}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) - \\
& (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(n_i+j_{sa}^{ik}-2 \cdot s-k_1-k_2)!}{(n_i-n-k_1-k_2-1)! \cdot (n+j_{sa}^{ik}-2 \cdot s+1)!}
\end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})}^{()} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \Bigg)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \cdot \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i + j_s - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_{is} - s - \mathbb{k} - 1)!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\ &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \right. \right. \\ &\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right) \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2)}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i + j_s - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2)}$$

$$\frac{(n_{is} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_{is} + j_s - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right)$$



$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_s^l} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i + j_s - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}^{()} \frac{(n_{is} - s - \mathbb{k} - 1)!}{(n_{is} + j_s - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}^{()} \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \right)$$

$$\begin{aligned}
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_s - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i + j_s - n - k_1 - k_2 - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_{sa}^s-k_2} \\
 & \frac{(n_{is} - s - k_1 - k_2 - 1)!}{(n_{is} + j_s - n - k_1 - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\ &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right) \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2)}$$

$$\frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2)}$$

$$\frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$



$$\begin{aligned}
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) \Big) -
 \end{aligned}$$

$$\begin{aligned}
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik}+j_{ik}+k_1-j_s-s-k-1)!}{(n_{ik}+j_{ik}+k_1-n-k-j_{sa}^s-1)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik}+j_{ik}+k_1-j_s-s-k-1)!}{(n_{ik}+j_{ik}+k_1-n-k-j_{sa}^s-1)! \cdot (n+j_{sa}^s-s-j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \\
 & \left. \frac{(n_{ik}-n_s-k_2-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k_2)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1}^{(\cdot)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2}^{( )}}{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}$$

$$\frac{(n_{ik} + j_{ik} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}{(n_{ik} + j_{ik} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \Bigg)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$



$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
 &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n+k+1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} \frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot k_1 - k_2 + 1)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j_i=j_s+s-1)}$$

$$\sum_{(n_i=n+k+1)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right)$$

$$\begin{aligned}
 & \frac{\sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2}}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1}^{( )} \\
 & \frac{\sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2}}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)! \cdot (j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} + \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s = 1}^{( )} \sum_{(j_{ik} = j_{sa}^{ik})}^{( )} \sum_{j_i = j_{ik} + s - j_{sa}^{ik} + 1}^n \right. \right. \\
 & \left. \left. \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \right. \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \right. \\
 & \left. \left. \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}}^n \right. \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \right.$$

$$\left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n - s)!}$$



$$\frac{(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}^{()} \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}^{()} (2 \cdot n_{is} + j_s - n_{ik} - j_{ik} - s - 2 \cdot l_{k_1} - l_{k_2} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{ik} - n - 2 \cdot l_{k_1} - l_{k_2} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$

$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$

$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_i=s}^{()} \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \frac{(n_{ik} - n_s - l_{k_2} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - l_{k_2})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1}^{()} \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - l_{k_1})!} \right)$$

$$\begin{aligned}
& \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s=1}^{\binom{)}{}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
& \quad \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{\binom{)}{}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
& \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \Bigg)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(2 \cdot n_{is} + j_s + \mathbb{k}_2 - n_{ik} - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s + \mathbb{k}_2 - n_{ik} - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=s}^{( )} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\ &\quad \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \qquad \qquad \qquad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \qquad \qquad \qquad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \qquad \qquad \qquad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left( \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_{ik} + j_i - j_s - s - k_2 - 2)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_{ik} + j_i - j_s - s - k_2 - 2)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \right)$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}
 \end{aligned}$$

$$\begin{aligned}
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right) \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(n_{ik} + j_i + l_{k_1} - j_s - s - l_k - 2)!}{(n_{ik} + j_i + l_{k_1} - n - l_k - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$



$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\frac{(n_{ik}+j_i+lk_1-j_s-s-lk-2)!}{(n_{ik}+j_i+lk_1-n-lk-j_{sa}^s-2)! \cdot (n+j_{sa}^s-s-j_s)!}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$$

$$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i-n_{ik}-lk_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-lk_1+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-lk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-lk_1)!}$$

$$\left. \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_k + j_i - n - k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_i + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_i + 1)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_{ik} + j_i + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_i + 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}+1}} \sum_{\binom{(\ )}{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2}}^{n_i-j_{ik}-\mathbb{k}_1+1} \sum_{n_s=\mathbf{n}-j_i+2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. + \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot k_1 - k_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_i - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 2)! \cdot (n - s)!}
 \end{aligned}$$



$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{lk} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{lk} - s - j_i + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=s}^{( )} \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{ik} - j_i - s - 2 \cdot k_1 - k_2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_i - n - 2 \cdot k_1 - k_2 - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n - s)!}
 \end{aligned}$$



$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(2 \cdot n_{is} + j_s + l_{k_2} - n_{ik} - j_i - s - 2 \cdot l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s + l_{k_2} - n_{ik} - j_i - n - 2 \cdot l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$$

$$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - l_{k_2} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - l_{k_2})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - l_{k_1})!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \Bigg)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 &\quad \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 &\quad \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 &\quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} - j_i)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s - 1)! \cdot (\mathbf{n} - j_{sa}^s)!}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \left. \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \right. \\
 & \left. \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \right. \right. \\
 & \left. \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) \Big) -
 \end{aligned}$$



$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 + 1)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_{S_0}DOSD = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \right.$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \right.$$

$$\left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n - s)!} -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}$$

$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$

$l_{k_2}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$

$s = s + l_k + 1 \wedge l_{k_2}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - l_{k_2} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - l_{k_2})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - l_{k_1})!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \Bigg)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\ &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right) \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$



$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$\frac{(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n+k+1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot k - k_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - k_1 - j_{sa}^s + 2)! \cdot (n - s)!} \cdot \frac{(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_s+s-1} \sum_{(n_i=n+k+1)} \sum_{n_{is}=n+k_1+k_2-j_s+2} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\begin{aligned}
& \frac{\sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2}}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1}^{( )} \\
& \frac{\sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2}}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)! \cdot (j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} + \\
& \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
& \left( (D - s)! \cdot \left( \sum_{j_s = 1}^{( )} \sum_{(j_{ik} = j_{sa}^{ik})}^{( )} \sum_{j_i = j_{ik} + s - j_{sa}^{ik} + 1}^n \right. \right. \\
& \left. \left. \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \right. \right. \\
& \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
& \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \right. \\
& \left. \left. \sum_{j_s = 1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n + j_{sa}^{ik} - s)} \sum_{j_i = j_{ik} + s - j_{sa}^{ik}}^n \right. \right.
\end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) \Big) -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{(\quad)}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\quad)}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_s+s-1}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\quad)}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_{S_0}^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( \left( (D-s)! \cdot \sum_{j_s=1} \sum_{\binom{(\quad)}{(j_{ik}=j_{sa}^{ik})}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{(\quad)}{(n_{ik}=n+k_2-j_{ik}+2)}} \sum_{n_s=n-j_i+2}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_i - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right.$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot l_k - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_2}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$$

$$s = s + l_k + 1 \wedge l_{k_2}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - l_{k_2} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - l_{k_2})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - l_{k_1})!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right) \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
&\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
&\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
&\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) + \\
&\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \right. \right. \\
&\quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
\end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_0 S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \left. \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \right. \\
 & \left. \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \right. \\
 & \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} + \right. \right. \\
 & \left. \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right.
 \end{aligned}$$

$$\begin{aligned}
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
& \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) \Big) -
\end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$0_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!}$$

$$\frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1}^{(\cdot)} \\
& \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
& \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) +
\end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_s - j_s - j_i - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!} -
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_s - j_s - j_i - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \right. \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \Bigg)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \cdot \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \cdot \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n - s)!} - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(n_{is} + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 &\quad \left. \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 &\quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \right) \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n)}^{(n_i=n+k+1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} \frac{(n_i + n_{ik} + j_{ik} + k_1 - n_s - j_i - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s + j_{ik} + k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j_i=j_s+s-1)} \sum_{(n)}^{(n_i=n+k+1)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} \frac{(n_{is} + n_{ik} + j_{ik} + k_1 - n_s - j_i - s - 2 \cdot k - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} + k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right)
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_s^l} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1} \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+1+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}} \frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$

$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \wedge j_{ik} = j_i - 1 \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$

$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s} \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-l_{k_2}-1} \frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1} \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+1+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}-l_{k_2}-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - l_{k_1})!} \right)$$

$$\begin{aligned}
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \quad \left( \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=s} \right. \\ & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\ & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\ & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\ & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\ & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\ & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \\ & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\ & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2)!}{(2 \cdot n_i - n_s - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \right.$$

$$\left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right)^+$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^n \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot k)}{(2 \cdot n_i - n_s - j_{ik} - n - 2 \cdot k - j_{sa}^s)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$

$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big)^ +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \right. \\
 & \quad \left. \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \quad \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 3)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \binom{(\quad)}{\quad} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s-1} \binom{(\quad)}{\quad} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \binom{(\quad)}{\quad} \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
& \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 + 1)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 1)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_i=j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
\end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S_0^{DOSD} &= \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s} \right. \right. \\
& \left. \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \right. \right. \\
& \left. \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \right.
\end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right) + \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot k - k_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1 - j_{sa}^s + 3)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$

$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!}$$

$$\left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \quad \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \right. \\
 & \quad \left. \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \quad \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 1)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 1)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_{ik}-k_1+1}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}-k_2-1}{n_s=n-j_i+2}} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{(n_{is}+j_s-j_{ik}-k_1)}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}-k_2-1}{n_s=n-j_i+2}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_{ik}-k_1+1}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}+j_{ik}-j_i-k_2}{n_s=n-j_i+2}} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2 - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_i=j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2 - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
& \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
& \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
& \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
& \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
\end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot k - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_{ik} - s - 2 \cdot k - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big)^ +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{(\cdot)}{n}} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \right. \\
 & \left. \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{\binom{(n-1)}{n}} \sum_{(j_{ik}=s)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \right. \\
 & \left. \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{\binom{(n-s+1)}{n}} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_2: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \binom{(\quad)}{\quad} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \binom{(\quad)}{\quad} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \binom{(\quad)}{\quad} \right. \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
& \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
& \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
& (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right) \\
& \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
& \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
& \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
\end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=s+j_{sa}^{ik}-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_i=j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$   
 $I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$   
 $k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$   
 $I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$   
 $s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right)$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s\bar{a}}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot k - k_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1 - 1)! \cdot (n - s)!}
 \end{aligned}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot lk - lk_1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot lk - lk_1 - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$= n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$$

$$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big)^ +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \right. \\
 & \left. \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1}^l \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 2)! \cdot (n - s)!} \\
& (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
& \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
& \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
\end{aligned}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_2: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot k_2 - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot k_2 - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^n \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_s - j_s - s - 2 \cdot k - 2)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot lk_1 - n_s - j_s - s - 2 \cdot lk - 2)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot lk_1 - n_s - n - 2 \cdot lk - j_{sa}^s - 2)! \cdot (n - s)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$

$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \Big)^ +$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{(\cdot)}{n}} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k_1+1)}^{\binom{(n)}{n_i=n+k_1+1}} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=1}^{\binom{(n-1)}{j_{ik}=s}} \sum_{(j_{ik}=s)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{\binom{(n)}{n_i=n+k_1+1}} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{\binom{(n-s+1)}{j_{ik}=j_s+s-2}} \sum_{(j_{ik}=j_s+s-2)}^{\binom{(\cdot)}{n}} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{\binom{(n)}{n_i=n+k_1+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 2)!}{(n_i + n_{ik} + j_s - n_s - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 2)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_{is} + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 2)!}{(n_{is} + n_{ik} + j_s - n_s - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_2: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \binom{(\cdot)}{\cdot} \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \binom{(\cdot)}{\cdot} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left. \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \binom{(\cdot)}{\cdot} \right. \right. \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right. \\
 & \left. \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} + \right. \\
 & \left. \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \right. \\
 & \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\left. \left. \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \right) \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + n_{ik} + k_1 - n_s - s - 2 \cdot k - 2)!}{(n_i + n_{ik} + j_s + k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{is} + n_{ik} + k_1 - n_s - s - 2 \cdot k - 2)!}{(n_{is} + n_{ik} + j_s + k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!} \right)_{j_i}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
\end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s_a}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{s_a}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{s_a}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s\alpha}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{s\alpha}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{s\alpha}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$



$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{s_a}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{s_a}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{s_a}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_i - k - j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$



$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(n_i + j_s - j_i - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(n_i + j_s - j_i - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k - 2 \cdot j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - I - 2 \cdot j_{sa}^s)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k_1 - k_2 - 2 \cdot j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k_1 - k_2 - 2 \cdot j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{\binom{()}{n_i=n+k+1}} \sum_{n_i=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}}^{(n_s+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \sum_{\binom{()}{n_i=n+k+1}}^{(n)} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{\binom{()}{n+j_{sa}^{ik}-s}} \sum_{\binom{()}{j_{ik}=j_{sa}^{ik}+1}} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{\binom{()}{n_i=n+k+1}}^{(n)} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \right)$$



$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
& \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
\end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k - j_{sa}^s - 1)!}{(n_i - n - k - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$



$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(\mathbf{n}-j_i+1)} \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
& \quad (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{\mathbf{n}} \right. \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(\mathbf{n}-j_i+1)} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
& \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \right. \\
& \quad \sum_{j_s=1}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{\mathbf{n}} \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(\mathbf{n}-j_i+1)}
\end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - I)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} -$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} -$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
& \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
& \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
& \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
& \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
\end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot$$

$$\begin{aligned}
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
& \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{\mathbf{n}-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
& \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
& \quad \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \\
& \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
& \quad (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{\mathbf{n}} \right. \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
& \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
& \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \right. \\
& \quad \sum_{j_s=1}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdot)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^{\mathbf{n}} \\
& \quad \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
\end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k - 1)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_{sa} - 2 \cdot j_{sa}^{ik} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_{sa} - 2 \cdot j_{sa}^{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \right)$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} - j_i - k - j_{sa}^{ik} - 1)!}{(n_i - n - k - 1)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} - j_i - I - j_{sa}^{ik})!}{(n_i - n - I)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$



$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} - j_i - k_1 - k_2 - j_{sa}^{ik} - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_{ik} - j_i - k_1 - k_2 - j_{sa}^{ik} - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} - j_i - j_{sa}^{ik})!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$

$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k - 1)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \quad \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_k+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot
 \end{aligned}$$



$$\left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \quad \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & \quad (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}
 \end{aligned}$$

$$\sum_{(n_i = n + k + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - k_1 + 1)}^{(\quad)} \sum_{n_s = n_{ik} + j_{ik} - j_i - k_2} \left( \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s = 2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{(\quad)} \sum_{j_i = j_{ik} + 1}$$

$$\sum_{(n_i = n + k + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n_{is} + j_s - j_{ik} - k_1)}^{(\quad)} \sum_{n_s = n_{ik} + j_{ik} - j_i - k_2} \left( \frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!} \right)_{j_i}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(i + s) \cdot (i - I)}{n \cdot (i + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s = 1} \sum_{(j_{ik} = s - 1)}^{(\quad)} \sum_{j_i = s} \right.$$

$$\sum_{(n_i = n + k + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} - k_2 - 1} \sum_{(i = 2)}^{(n - j_i + 1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n-s+1} \sum_{(j_{ik} = j_s + s - 2)}^{(\quad)} \sum_{j_i = j_s + s - 1}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{i_s}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n+l_{k_2}-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{i_k}-l_{k_2}-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - l_{k_1} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k} - l_{k_1})!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{i_k}=s-1)}^{(n)} \sum_{j_i=j_{i_k}+2}^n \right) \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{i_k}=n+l_{k_2}-j_{i_k}+2)}^{(n_i-j_{i_k}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{i_k} - 2)!}{(j_{i_k} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{i_k} - 1)!}{(j_{i_k} - 2)! \cdot (n_i - n_{i_k} - j_{i_k} + 1)!} \cdot \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{i_k}=s)}^{(n-1)} \sum_{j_i=j_{i_k}+1}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{i_k}=n+l_{k_2}-j_{i_k}+2)}^{(n_i-j_{i_k}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{i_k}+j_{i_k}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{i_k} - 2)!}{(j_{i_k} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{i_k} - 1)!}{(j_{i_k} - 2)! \cdot (n_i - n_{i_k} - j_{i_k} + 1)!} \cdot \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{i_k}=j_s+s-2)}^{(n)} \sum_{j_i=j_{i_k}+2}^n \right)
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{i_s} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = n + k_2 - j_{i_k} + 2)}^{(n_{i_s} + j_s - j_{i_k} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{i_k} + j_{i_k} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \\
 & \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{i_s} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{i_k} = n + k_2 - j_{i_k} + 2)}^{(n_{i_s} + j_s - j_{i_k} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{i_k} + j_{i_k} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{i_k} - j_s - 1)!}{(j_{i_k} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{i_k} - 1)!}{(j_{i_k} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{i_k} - j_{i_k})!} \\
 & \frac{(n_{i_k} - n_s - 1)!}{(j_i - j_{i_k} - 1)! \cdot (n_{i_k} + j_{i_k} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{i_k}=j_{sA}^{i_k}} \sum_{(j_i=j_{i_k}+1)}$$

$$\sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{i_k} = n_i - j_{i_k} - k_1 + 1)}^{(\ )} \sum_{n_s = n_{i_k} + j_{i_k} - j_i - k_2}$$

$$\left( \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} \right)_{j_i} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{ik}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}$$

$$\left( \frac{(n_i - s - lk_1 - lk_2 - 1)!}{(n_i - n - lk_1 - lk_2 - 1)! \cdot (n - s)!} \right)_{j_i}$$

$$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$$

$$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$$

$$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{is}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - lk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - lk_1)!}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \quad \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \left( \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \quad \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \quad \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right)
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - s - k - 1)!}{(n_i - n - k - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned} {}_0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}^{( )} \right. \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ &\quad (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\ &\quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right. \\ &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\ &\quad \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right) \right) \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - s - k_1 - k_2 - 1)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - s - 1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=s}^{(\cdot)} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_s+s-1}^{(\cdot)} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1}^{\iota-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i+j_s-j_{ik}-\mathbb{k}-j_{sa}^s-2)!}{(n_i-\mathbf{n}-\mathbb{k}-1)! \cdot (\mathbf{n}+j_s-j_{ik}-j_{sa}^s-1)!} \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i+j_s-j_{ik}-I-j_{sa}^s-1)!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+j_s-j_{ik}-j_{sa}^s-1)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \right.
 \end{aligned}$$



$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{(n_i=n+k+1) (n_{ik}=n_i-j_{ik}-k_1+1) n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_i + j_s - j_{ik} - k_1 - k_2 - j_{sa}^s - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1) j_i=j_{ik}+1}} \sum_{\binom{n}{(n_i=n+k+1) n_{is}=n+k_1+k_2-j_s+2} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1) n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_i + j_s - j_{ik} - k_1 - k_2 - j_{sa}^s - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1)}} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - k - 2 \cdot j_{sa}^s)!}{(n_i - n - k - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - I - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\ )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - k_1 - k_2 - 2 \cdot j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - k_1 - k_2 - 2 \cdot j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1)}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_i-j_{ik}-k_1+1)}} \sum_{n_{ik}=k_2-1}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$



$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - I + 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{i_s}+j_s-j_{ik}-\mathbb{k}_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{ik} + j_{s_a}^s - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (n + j_{ik} + j_{s_a}^s - j_s - 2 \cdot s + 1)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s} \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}^{n_i-j_{ik}-\mathbb{k}_1+1} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{\binom{()}{i=2}}^{n-j_i+1} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+s-2}} \sum_{j_i=j_s+s-1} \sum_{\binom{n}{n_i=n+\mathbb{k}+1}} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+2}^{n_{i_s}+j_s-j_{ik}-\mathbb{k}_1} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{\binom{()}{i=2}}^{n-j_i+1} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right)$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{(\cdot)}{}} \sum_{(j_{ik}=s-1)}^{\binom{(\cdot)}{}} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \right. \\
 & \quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{\binom{(n-1)}{}} \sum_{(j_{ik}=s)}^{\binom{(\cdot)}{}} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \\
 & \quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 & \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{\binom{(n-s+1)}{}} \sum_{(j_{ik}=j_s+s-2)}^{\binom{(\cdot)}{}} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \cdot \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!} \cdot \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$



$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - I + 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=s}^{( )} \right. \\ & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\ & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\ & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right. \\ & \left. \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\ & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \right) \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k_1 - k_2 + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1}^{\iota-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i+j_s+j_{sa}^{ik}-j_i-s-k-j_{sa}^s)!}{(n_i-n-k-1)! \cdot (n+j_s+j_{sa}^{ik}-j_i-s-j_{sa}^s+1)!} - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i+j_s+j_{sa}^{ik}-j_i-s-I-j_{sa}^s+1)!}{(n_i-n-I)! \cdot (n+j_s+j_{sa}^{ik}-j_i-s-j_{sa}^s+1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!}
 \end{aligned}$$



$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!} (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I - 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1)}} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - k - 2)!}{(n_i - n - k - 1)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - I - 1)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_{ik}-k_1+1}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}-k_2-1}{n_s=n-j_i+2}} \sum_{\binom{n-j_i+1}{i=2}} \right)$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) - \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\quad)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 2)!}{(n_i - n - \mathbb{k} - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - I - 1)!}{(n_i - n - I)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(\cdot)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - k_1 - k_2 - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right)$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \right. \\
 & \quad \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{( )} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \left. \right) + \\
 & \quad \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \cdot \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - k - j_{sa}^{ik} - 2)!}{(n_i - n - k - 1)! \cdot (n - j_{sa}^{ik} - 1)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_i - I - j_{sa}^{ik} - 1)!}{(n_i - n - I)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=s}^{( )} \right. \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{(n_s=n-j_i+2)}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\ &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_s=n-j_i+2)}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right. \\ &\quad \left. \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \right) \end{aligned}$$



$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - k_1 - k_2 - j_{sa}^{ik} - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - j_{sa}^{ik} - 1)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_i - k_1 - k_2 - j_{sa}^{ik} - 2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=s}^{(\cdot)} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_s+s-1}^{(\cdot)} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=\mathbf{n}+\mathbb{k}_2-j_{i_k}+2)}^{(n_{i_s}+j_s-j_{i_k}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{i_k}+j_{i_k}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{i_k}-j_s-1)!}{(j_{i_k}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{i_s}-1)!}{(j_s-2)! \cdot (n_i-n_{i_s}-j_s+1)!} \cdot \frac{(n_{i_s}-n_{i_k}-1)!}{(j_{i_k}-j_s-1)! \cdot (n_{i_s}+j_s-n_{i_k}-j_{i_k})!} \cdot \\
 & \frac{(n_{i_k}-n_s-1)!}{(j_i-j_{i_k}-1)! \cdot (n_{i_k}+j_{i_k}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-\mathbf{n}-2)! \cdot (\mathbf{n}-j_i-i+1)!} \right) \Bigg) - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=1}^{\iota-I} \sum_{j_{i_k}=j_{s_a}^{i_k}} \sum_{(j_i=j_{i_k}+1)} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{i_k}=n_i-j_{i_k}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i+j_{s_a}^{i_k}-2 \cdot s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k}-1)! \cdot (\mathbf{n}+j_{s_a}^{i_k}-2 \cdot s+1)!} - \\
 & (D-s)! \cdot \frac{\iota-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{i_k}=j_s+j_{s_a}^{i_k}-1)}^{(\ )} \sum_{j_i=j_{i_k}+1} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{i_k}=n_{i_s}+j_s-j_{i_k}-\mathbb{k}_1)}^{(\ )} \sum_{n_s=n_{i_k}+j_{i_k}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i+j_{s_a}^{i_k}-2 \cdot s-I+1)!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+j_{s_a}^{i_k}-2 \cdot s+1)!}
 \end{aligned}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{i_k} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{i_k} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{i_k} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2 - 1)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I - 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=j_{sa}^{ik})}} \sum_{j_i=s}$$



$$\begin{aligned}
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^{\mathbf{n}} \right) \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{(n)} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n+k+1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} \frac{(n_i + j_s - s - k - j_{sa}^s - 1)!}{(n_i + j_s - n - k - j_{sa}^s - 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{(j_i=j_s+s-1)} \sum_{(n_i=n+k+1)} \sum_{n_{is}=n+k_1+k_2-j_s+2} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} \frac{(n_{is} - s - k - 1)!}{(n_{is} + j_s - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S_0^{D OSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s = 2}^{n - s + 1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_s + s - 1} \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s = 1}^{( )} \sum_{(j_{ik} = j_{sa}^{ik})}^{( )} \sum_{j_i = j_{ik} + s - j_{sa}^{ik} + 1}^n \right) \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-j_{sa}^{ik})! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-j_{sa}^{ik}+1)! \cdot (j_{sa}^{ik}-2)!} \cdot \frac{(j_i-j_{ik}-1)!}{(j_i+j_{sa}^{ik}-j_{ik}-s)! \cdot (s-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{\binom{n}{(n_i=n+k+1) (n_{ik}=n_i-j_{ik}-k_1+1) n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_i + j_s - s - k_1 - k_2 - j_{sa}^s - 1)!}{(n_i + j_s - n - k_1 - k_2 - j_{sa}^s - 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1) j_i=j_s+s-1}} \sum_{\binom{()}{(n_i=n+k+1) n_{is}=n+k_1+k_2-j_s+2 (n_{ik}=n_{is}+j_s-j_{ik}-k_1) n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_{is} - s - k_1 - k_2 - 1)!}{(n_{is} + j_s - n - k_1 - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!} -$$

- $D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$
- $I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$
- $k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$
- $I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$
- $s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1) j_i=s}} \sum_{j_i=s} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
 \end{aligned}$$



$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - s - k - j_{sa}^s - 1)!}{(n_i + j_s - n - k - j_{sa}^s - 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{is} - s - k - 1)!}{(n_{is} + j_s - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right)$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i + j_s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}_2}$$

$$\frac{(n_{is} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_{is} + j_s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_{S_0}DOSD = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{(j_{ik}=j_{sa}^{ik})}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}} \sum_{n_s=n-j_i+2}^{n_i-j_{ik}-\mathbb{k}_1+1} \sum_{\binom{(\ )}{(i=2)}}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{\binom{(\ )}{(n-j_i+1)}}^{n-j_i+1}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$\begin{aligned}
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik}+j_{ik}-j_s-s-k_2-1)!}{(n_{ik}+j_{ik}-n-k_2-j_{sa}^s-1)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik}+j_{ik}-j_s-s-k_2-1)!}{(n_{ik}+j_{ik}-n-k_2-j_{sa}^s-1)! \cdot (n+j_{sa}^s-s-j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge l = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i-n_{ik}-k_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-k_1+1)!} \cdot \frac{(n_{ik}-n_s-k_2-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i-k_2)!} \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right)
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$\begin{aligned}
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{ik} + k_1 - j_s - s - k - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{ik} + k_1 - j_s - s - k - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$

$$\begin{aligned}
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \right.$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$\begin{aligned}
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot k_1 - k_2 + 1)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 1)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{D OSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S_0^{D OSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right.$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$



$$\begin{aligned}
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\cdot)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_{is} + j_s - n_{ik} - j_{ik} - s - 2 \cdot k_1 - k_2 - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge l = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}^{(\cdot)} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$\begin{aligned}
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 1)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_{is} + j_s + k_2 - n_{ik} - j_{ik} - s - 2 \cdot k - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) \Big) \Big) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_{ik} + j_i - j_s - s - \mathbb{k}_2 - 2)!}{(n_{ik} + j_i - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{\mathbb{k}_2-1})}^{()} \sum_{j_i=j_{ik}+1}^{()} \sum_{(n_i=\mathbf{n}+\mathbb{k}_2+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}^{()} \frac{(n_{ik} + j_i - j_s - s - \mathbb{k}_2 - 2)!}{(n_{ik} + j_i - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}^{()} \sum_{(n_i=\mathbf{n}+\mathbb{k}_2+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \right.$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}^{()}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}_2+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik} = j_s + s - 1)}^{(n-1)} \sum_{j_i = j_{ik} + 1}^n \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j_i = j_{ik} + 1)} \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - k_1 + 1)}^{( )} \sum_{n_s = n_{ik} + j_{ik} - j_i - k_2} \\
 & \frac{(n_{ik} + j_i + k_1 - j_s - s - k - 2)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik} = j_s + j_{sa}^{ik} - 1)}^{( )} \sum_{j_i = j_{ik} + 1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_{ik} + j_i + k_1 - j_s - s - k - 2)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right)$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{\binom{(\cdot)}{}} \sum_{(j_{ik}=s-1)}^{\binom{(\cdot)}{}} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \right. \\
 & \quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{\binom{(n-1)}{}} \sum_{(j_{ik}=s)}^{\binom{(\cdot)}{}} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \\
 & \quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \right) + \\
 & \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{\binom{(n-s+1)}{}} \sum_{(j_{ik}=j_s+s-2)}^{\binom{(\cdot)}{}} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \cdot \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s - 1)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!} \cdot \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_k + j_i - n - \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=s}^{( )} \right. \\ &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\ &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=s}^{(\cdot)} \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_s+s-1}^{(\cdot)} \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right)
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{l-I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot k_1 - k_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_i - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 2)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!}
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 2)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1)}} \sum_{j_i=s} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_{ik} - j_i - s - 2 \cdot k_1 - k_2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_i - n - 2 \cdot k_1 - k_2 - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{n_i-j_{ik}-k_1+1}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{\binom{n_{ik}-k_2-1}{n_s=n-j_i+2}} \sum_{\binom{n-j_i+1}{i=2}} \right)$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^{\mathbf{n}} \right. \\
 & \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{\mathbf{n}} \right. \\
 & \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right.
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{is} + j_s + \mathbb{k}_2 - n_{ik} - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s + \mathbb{k}_2 - n_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_{S_0}DOSD = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{(j_{ik}=j_{sa}^{ik})}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{\binom{(\ )}{(n_{ik}+j_{ik}-j_i-\mathbb{k}_2)}} \sum_{\binom{(\ )}{(n-j_i+1)}} \sum_{(i=2)}^{n_s=n-j_i+2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_s - \mathbb{k}_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - \mathbb{k}_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned} & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\ & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\ & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\ & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\ & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\ & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\ & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\ & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\ & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\ & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\ & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s + j_i - j_s - s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$



$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_i)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$\begin{aligned}
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 + 1)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{()} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$\begin{aligned}
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k + 1)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k - j_{sa}^s + 1)! \cdot (n-s)!} \\
 & (D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge l = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 3 \cdot k_1 - 2 \cdot k_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot k - k_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - k_1 - j_{sa}^s + 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_i - n - j_{sa}^s - 1)! \cdot (n - j_{sa}^s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$



$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot l_k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot l_k - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$$

$$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$$

$$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$$

$$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \frac{(n_{ik} - n_s - l_{k_2} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - l_{k_2})!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$



$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$(D-s)! \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$o_{S_0}^{DOSD} = \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-l_{k_1}+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot l_{k_1} - n_s - j_s - j_i - s - 2 \cdot l_k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot l_{k_1} - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-l_{k_1})}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-l_{k_2}}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot l_{k_1} - n_s - j_s - j_i - s - 2 \cdot l_k - 1)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot l_{k_1} - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge l_k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_k > 0 \wedge I = 1 \wedge s = s + l_k + 1 \wedge$

$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \vee$

$I = l_k + 1 \wedge s > 1 \wedge l_{k_2} > 0 \wedge l_{k_1} = 0 \wedge I = 1 \wedge$

$s = s + l_k + 1 \wedge l_{k_z}: z = 1 \wedge l_k = l_{k_2} \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+l_k+1)}^{(n)} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \frac{(n_{ik} - n_s - l_{k_2} - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - l_{k_2})!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot k_2 - k_1 - 1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot k_2 - k_1 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{is} + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot k_2 - k_1 - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot k_2 - k_1 - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$o_{S_0}^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \frac{(n_{ik} - n_s - k_2 - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i - k_2)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \right. \\
 & \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - j_{sa}^{ik})! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}+1}^n \right. \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \sum_{j_i=j_{ik}+s-j_{sa}^{ik}}^n \\
 & \sum_{(n_i=n+l_k+1)}^{(n)} \sum_{n_{is}=n+l_{k_1}+l_{k_2}-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-l_{k_1})} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-l_{k_2}} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - j_{sa}^{ik} + 1)! \cdot (j_{sa}^{ik} - 2)!} \cdot \frac{(j_i - j_{ik} - 1)!}{(j_i + j_{sa}^{ik} - j_{ik} - s)! \cdot (s - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + n_{ik} + j_{ik} + k_1 - n_s - j_i - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s + j_{ik} + k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{is} + n_{ik} + j_{ik} + k_1 - n_s - j_i - s - 2 \cdot k - 1)!}{(n_{is} + n_{ik} + j_s + j_{ik} + k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - s)!} \cdot (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}^{()} \sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{i_s}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik}-lk_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-lk_2}^{()} \frac{(n_s + j_{ik} - j_s - s)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge lk = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk > 0 \wedge I = 1 \wedge s = s + lk + 1 \wedge$

$lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = lk + 1 \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge I = 1 \wedge$

$s = s + lk + 1 \wedge lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}^{()} \sum_{(n_i=n+lk+1)}^{(n)} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_i-j_{ik}-lk_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{ik} - lk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - lk_1 + 1)!} \right) + \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}^{()}$$

$$\sum_{(n_i=n+lk+1)}^{(n)} \sum_{n_{i_s}=n+lk_1+lk_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+lk_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-lk_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-lk_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$



$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(\cdot)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i = n + k_1 + 1)}^{(n)} \sum_{n_{is} = n + k_1 + k_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + k_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - k_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - k_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik}-\mathbb{k}_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right)$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{i_s}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!}$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \right. \\
 & \quad \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{( )} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \left. \right) + \\
 & \quad \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2)!}{(2 \cdot n_i - n_s - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}^0S_0^{DOSD} &= \frac{(i+s) \cdot (i-I)}{n \cdot (i+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=s}^{( )} \right. \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\ &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\ &\quad \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\ &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\ &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\ &\quad \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right) \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \right. \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot k)!}{(2 \cdot n_i - n_s - j_{ik} - n - 2 \cdot k - j_{sa}^s)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}
 \end{aligned}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$



$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(l+s) \cdot (l-I)}{n \cdot (l+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \qquad \qquad \qquad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \qquad \qquad \qquad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \qquad \qquad \qquad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \qquad \qquad \qquad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) - (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{\iota - I} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 3)! \cdot (n - s)!} - (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right.
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 + 1)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 1)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1)}} \sum_{j_i=s}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!}
 \end{aligned}$$



$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot k - k_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1 - j_{sa}^s + 3)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{j_{ik}=j_s+j_{sa}^{ik}-1}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{()}{n_{ik}=n_{is}+j_s-j_{ik}-k_1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{j_{ik}=s-1}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{n_i=n+k+1}} \sum_{\binom{()}{n_{ik}=n+k_2-j_{ik}+2}} \sum_{n_s=n-j_i+2}^{n_i-j_{ik}-k_1+1} \sum_{\binom{()}{i=2}}^{n_{ik}-k_2-1} \right)$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \right) \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 + 1)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s + 1)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s - j_{sa}^s - 1)!}{(n_s + j_{ik} - n - j_{sa}^s)! \cdot (n - j_{ik} - 1)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{(j_{ik}=s-1)}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{(\ )}{(n_{ik}=n+k_2-j_{ik}+2)}} \sum_{n_{ik}=n-k_2-1}^{n_i-j_{ik}-k_1+1} \sum_{\binom{(\ )}{(i=2)}}^{n-j_i+1}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \right.$$

$$\left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right)$$

$$\begin{aligned}
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) \Big) \Big) \Big) - \\
 & (D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
 \end{aligned}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 2)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbf{I} = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{I} = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{I} = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$



$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{(n_i = n + \mathbb{k} + 1)}^{(n)} \sum_{n_{is} = n + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2}^{n_i - j_s + 1} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 2)}^{(n_{is} + j_s - j_{ik} - \mathbb{k}_1)} \sum_{n_s = n - j_i + 2}^{n_{ik} + j_{ik} - j_i - \mathbb{k}_2} \sum_{(i=2)}^{(n - j_i + 1)} \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{i_s}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(2 \cdot n_{i_s} + j_s - n_s - j_{ik} - s - 2 \cdot k - 2)!}{(2 \cdot n_{i_s} + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k - j_{i_s}^s - 2)! \cdot (n - s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}^0S_0^{DOSD} = \frac{(i + s) \cdot (i - I)}{n \cdot (i + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right)$$

$$\begin{aligned}
 & \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \right. \\
 & \quad \left. \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \right. \\
 & \quad \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{( )} \sum_{j_i=j_{ik}+1}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \right) \left. \right) + \\
 & \quad \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \quad (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \quad \left. \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \cdot \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - 1)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$$D = \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}_0S_0^{DOSD} &= \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=s}^{(n)} \right. \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 &\quad (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_s+s-1}^{(n)} \\
 &\quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 &\quad \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \right. \\
 &\quad \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 &\quad \left( (D-s)! \cdot \left( \sum_{j_s=1}^{(n)} \sum_{(j_{ik}=s-1)}^{(n)} \sum_{j_i=j_{ik}+2}^{n} \right. \right. \\
 &\quad \left. \left. \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right) \right)
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \cdot \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) \Bigg) - \\
 & \frac{(D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n-s)!} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(D-s)! \cdot \frac{l-I}{n-s-l+1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=\sum_{s+j_{sa}^{ik}-1})}^{( )} \sum_{j_i=j_{ik}+1}}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n+j_{sa}^s-s-j_s)!} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n+j_{sa}^s-s-j_s)!}
 \end{aligned}$$

$$D = n < n \wedge k = 0 \wedge l = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge l = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
 {}^0S_0^{DOSD} = & \frac{(t+s) \cdot (t-I)}{n \cdot (t+s-I)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \binom{()}{j_i} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \binom{()}{j_i} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right)
 \end{aligned}$$



$$\begin{aligned}
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \qquad \qquad \qquad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \qquad \qquad \qquad (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \qquad \qquad \qquad \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \qquad \qquad \qquad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \\
 & \qquad \qquad \qquad \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & \qquad \qquad \qquad \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \qquad \qquad \qquad \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) - \\
 & (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=1}^{i-I} \sum_{j_{ik}=j_s^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot k - k_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1 - 1)! \cdot (n - s)!} - \\
 & (D - s)! \cdot \frac{i - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{( )} \sum_{j_i=j_{ik}+1} \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
 & \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot k - k_1)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1 - 1)! \cdot (n + j_{sa}^s - s - j_s)!}
 \end{aligned}$$

$= n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$\begin{aligned}
 {}_0S_0^{DOSD} = & \frac{(t+s) \cdot (t-l)}{n \cdot (t+s-l)} \cdot \left( (D-s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=s} \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \right. \\
 & (D-s) \cdot (D-s-1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)} \sum_{j_i=j_s+s-1} \left. \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) + \\
 & \left( (D-s)! \cdot \left( \sum_{j_s=1} \sum_{(j_{ik}=s-1)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \right) +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n-s+1)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \cdot \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!}
 \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 2)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{()}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1} \sum_{\binom{n}{(n_i=n+k+1)}} \sum_{\binom{n_i-j_s+1}{n_{is}=n+k_1+k_2-j_s+2}} \sum_{\binom{()}{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}} \sum_{\binom{()}{n_s=n_{ik}+j_{ik}-j_i-k_2}} \frac{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 2)!}{(3 \cdot n_{is} + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$$

$$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{()}{(j_{ik}=s-1)}} \sum_{j_i=s} \right)$$

$$\begin{aligned}
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1}^{( )} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-2)!}{(j_{ik}-s+1)! \cdot (s-3)!} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & (D-s) \cdot (D-s-1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{(n)} \sum_{j_i=j_{ik}+2}^n \right) \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!} \\
 & \left( \frac{(n_s-2)!}{(n_s+j_i-n-2)! \cdot (n-j_i)!} + \frac{(n_s-i-1)!}{(n_s+j_i-n-2)! \cdot (n-j_i-i+1)!} \right) + \\
 & \sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik}-j_s-1)!}{(j_{ik}-j_s-s+2)! \cdot (s-3)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_{ik}-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik})!} \\
 & \frac{(n_{ik}-n_s-1)!}{(j_i-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_s-j_i)!}
 \end{aligned}$$

$$\frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot k_2 - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!} -$$

$$(D - s)! \cdot \frac{t - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\quad)} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot k_2 - 2)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot k_2 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$D = n < n \wedge k = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k > 0 \wedge I = 1 \wedge s = s + k + 1 \wedge$

$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k + 1 \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge I = 1 \wedge$

$s = s + k + 1 \wedge k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(t + s) \cdot (t - I)}{n \cdot (t + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{(j_{ik}=s-1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$



$$\begin{aligned}
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \\
 & (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^{\mathbf{n}} \right. \\
 & \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \right. \\
 & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \right. \\
 & \left. \left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) + \right. \\
 & \left. \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^{\mathbf{n}} \right. \\
 & \left. \sum_{(n_i=\mathbf{n}+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=\mathbf{n}-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \right. \\
 & \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \right.
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) + \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \right. \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \left. \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) - \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!}$$

$$(D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{\binom{(\ )}{(j_{ik}=j_s+j_{sa}^{ik}-1)}} \sum_{j_i=j_{ik}+1}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{\binom{(\ )}{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 2)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (\mathbf{n} - s)!}$$

$$D = \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge \mathbf{s} = s + 1 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge \mathbf{s} = s + \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$$

$$\mathbf{s} = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}^0S_0^{DOSD} = \frac{(\iota + s) \cdot (\iota - I)}{n \cdot (\iota + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1} \sum_{\binom{(\ )}{(j_{ik}=s-1)}} \sum_{j_i=s}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k}+1)}} \sum_{\binom{(\ )}{(n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{\binom{(\ )}{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+2)}} \sum_{\binom{(\ )}{(n_s=n-j_i+2)}} \sum_{(i=2)}^{n-j_i+1}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - \mathbf{n} - 2)! \cdot (\mathbf{n} - j_i - i + 1)!} \right) +$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_s+s-1} \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{i_s}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{i_s}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-k_2-1} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_{ik} - k_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{i_s} + j_s - n_{ik} - j_{ik} - k_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{( )} \sum_{(j_{ik}=s-1)}^{( )} \sum_{j_i=j_{ik}+2}^n \right) \right. \\
 & \left. \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \right) \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +
 \end{aligned}$$

$$\begin{aligned}
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{( )} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-1)}^{(n-1)} \sum_{j_i=j_{ik}+1}^n \\
 & \sum_{(n_i=n+k_1+1)}^{(n)} \sum_{n_{is}=n+k_1+k_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+k_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-k_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-k_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \left. \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \right) \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Bigg) -
 \end{aligned}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k_1+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 2)!}{(n_i + n_{ik} + j_s - n_s - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 2)! \cdot (n - s)!}$$

$$(D - s)! \cdot \frac{l - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{lk}-1)}^{()} \sum_{j_i=j_{ik}+1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-\mathbb{k}_1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_{is} + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 2)!}{(n_{is} + n_{ik} + j_s - n_s - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

$D = n < n \wedge \mathbb{k} = 0 \wedge I = I = 1 \wedge s = s + 1 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k} > 0 \wedge I = 1 \wedge s = s + \mathbb{k} + 1 \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} + 1 \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge I = 1 \wedge$

$s = s + \mathbb{k} + 1 \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S_0^{DOSD} = \frac{(l + s) \cdot (l - I)}{n \cdot (l + s - I)} \cdot \left( (D - s)! \cdot \sum_{j_s=1}^{()} \sum_{(j_{ik}=s-1)}^{()} \sum_{j_i=s}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) +$$

$$(D - s) \cdot (D - s - 1)! \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+s-2)}^{()} \sum_{j_i=j_s+s-1}$$

$$\sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}-\mathbb{k}_2-1} \sum_{(i=2)}^{(n-j_i+1)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \left( (D - s)! \cdot \left( \sum_{j_s=1}^{(\cdot)} \sum_{(j_{ik}=s-1)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \left. \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \right) \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \quad \sum_{j_s=1}^{(n-1)} \sum_{(j_{ik}=s)}^{(\cdot)} \sum_{j_i=j_{ik}+1}^n \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)} \\
 & \quad \frac{(j_{ik} - 2)!}{(j_{ik} - s + 1)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & (D - s) \cdot (D - s - 1)! \cdot \left( \sum_{j_s=2}^{(n-s+1)} \sum_{(j_{ik}=j_s+s-2)}^{(\cdot)} \sum_{j_i=j_{ik}+2}^n \right. \\
 & \quad \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{n_{is}=n+\mathbb{k}_1+\mathbb{k}_2-j_s+2}^{n_i-j_s+1} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+2)}^{(n_{is}+j_s-j_{ik}-\mathbb{k}_1)} \sum_{n_s=n-j_i+2}^{n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \sum_{(i=2)}^{(n-j_i+1)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) + \\
 & \sum_{\substack{(n) \\ (n_i = n + \mathbb{k} + 1)}} \sum_{\substack{(n) - s + 1 \\ (j_s = 2)}} \sum_{\substack{(n - 1) \\ (j_{ik} = j_s + s - 1)}} \sum_{\substack{(n) \\ (j_i = j_{ik} + 1)}} \sum_{\substack{(n) - i + 1 \\ (n_{is} = n + \mathbb{k}_1 + \mathbb{k}_2 - j_s + 2)}} \sum_{\substack{(n_{is} + j_s - j_{ik} - \mathbb{k}_1) \\ (n_{ik} = n + \mathbb{k}_2 - j_{ik} + 2)}} \sum_{\substack{(n_{ik} + j_{ik} - j_i - \mathbb{k}_2) \\ (n_s = n - j_i + 2)}} \sum_{\substack{(n - j_i + 1) \\ (i = 2)}} \\
 & \frac{(j_{ik} - j_s - 1)!}{(j_{ik} - j_s - s + 2)! \cdot (s - 3)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_{ik} - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik})!} \cdot \\
 & \frac{(n_{ik} - n_s - 1)!}{(j_i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_s - j_i)!} \cdot \\
 & \left( \frac{(n_s - 2)!}{(n_s + j_i - n - 2)! \cdot (n - j_i)!} + \frac{(n_s - i - 1)!}{(n_s + j_i - n - 2)! \cdot (n - j_i - i + 1)!} \right) \Big) - \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
 & \sum_{(n_i=n+\mathbb{k}+1)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
 & \frac{(n_i + n_{ik} + \mathbb{k}_1 - n_s - s - 2 \cdot \mathbb{k} - 2)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_s - n - 2 \cdot \mathbb{k} - j_{sa}^s - 2)! \cdot (n - s)!} \\
 & (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=2}^{n-s+1} \sum_{(j_{ik}=j_s+j_{sa}^{ik}-1)}^{(\ )} \sum_{j_i=j_{ik}+1}
 \end{aligned}$$



$$\frac{\sum_{(n_i=n+k+1)}^{(n)} \sum_{(n_{is}=n+k_1+k_2-j_s+2)}^{n_i-j_s+1} \sum_{(n_{ik}=n_{is}+j_s-j_{ik}-k_1)}^{( )} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)} (n_{is} + n_{ik} + k_1 - n_s - s - 2 \cdot k - 2)!}{(n_{is} + n_{ik} + j_s + k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 2)! \cdot (n + j_{sa}^s - s - j_s)!}$$

GÜLDÜNYA

## BÖLÜM D TOPLAM DÜZGÜN ve DÜZGÜN OLMAYAN SİMETRİK OLASILIK ÖZET

### TOPLAM DÜZGÜN SİMETRİK OLASILIKLAR

- Simetrisinin durumlarından bağımsız olarak, bağımlı ve bir bağımsız olasılıklı farklı dizilimli olasılık dağılımlarındaki, düzgün simetrik olasılıklar; ilk düzgün simetrik olasılıkla, kalan düzgün simetrik olasılığın toplamından,

$$S^{DSD} = S^{ISS} + S^{DSS}$$

veya

$${}_0S^{DSD} = {}_0S^{ISS} + {}_0S^{DSS}$$

veya

$${}_0S^{DSD} = {}_0S^{ISS} + {}_0S^{DSS}$$

eşitlikleriyle hesaplanabilir.

- Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonraki ilk bağımlı durumunda simetrisinin bulunabileceği bağımlı durumlar bulunan dağılımlardaki, düzgün simetrik olasılıklar; aynı dağılımlardaki ilk düzgün simetrik olasılıkla, kalan düzgün simetrik olasılığın toplamından,

$$S_0^{DSD} = S_0^{ISS} + S_0^{DSS}$$

veya

$${}_0S_0^{DSD} = {}_0S_0^{ISS} + {}_0S_0^{DSS}$$

veya

$${}_0S_0^{DSD} = {}_0S_0^{ISS} + {}_0S_0^{DSS}$$

eşitlikleriyle hesaplanabilir.

- Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrisinin bulunabileceği bağımlı durumlarla başlayan dağılımlardaki, düzgün simetrik olasılıklar; aynı dağılımlardaki ilk düzgün simetrik olasılıkla, kalan düzgün simetrik olasılığın toplamından,

$$S_D^{DSD} = S_D^{ISS} + S_D^{DSS}$$

veya

$${}_0S_D^{DSD} = {}_0S_D^{ISS} + {}_0S_D^{DSS}$$

veya

$${}_0S_D^{DSD} = {}_0S_D^{ISS} + {}_0S_D^{DSS}$$

eşitlikleriyle hesaplanabilir.

**TOPLAM DÜZGÜN OLMAYAN SİMETRİK OLASILIKLAR**

- Simetrisinin durumlarından bağımsız olarak, bağımlı ve bir bağımsız olasılıklı farklı dizilimli olasılık dağılımlarındaki, düzgün olmayan simetrik olasılıklar; ilk düzgün olmayan simetrik olasılıkla, kalan düzgün olmayan simetrik olasılığın toplamından,

$$S^{DOSD} = S^{ISO} + S^{DOS}$$

veya

$${}_0S^{DOSD} = {}_0S^{ISO} + {}_0S^{DOS}$$

veya

$${}_0S^{DOSD} = {}_0S^{ISO} + {}_0S^{DOS}$$

eşitlikleriyle hesaplanabileceği gibi, aynı şartlı simetrik olasılıktan, aynı şartlı toplam düzgün simetrik olasılığın farkından,

$$S^{DOSD} = S - S^{DSD}$$

veya

$${}_0S^{DOSD} = {}_0S - {}_0S^{DSD}$$

veya

$${}_0S^{DOSD} = {}_0S - {}_0S^{DSD}$$

eşitlikleriyle de hesaplanabilir.

- Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonraki ilk bağımlı durumunda simetrisinin bulunabileceği bağımlı durumlar bulunan dağılımlardaki, düzgün olmayan simetrik olasılıklar; aynı dağılımlardaki ilk düzgün olmayan simetrik olasılıkla, kalan düzgün olmayan simetrik olasılığın toplamından,

$$S_0^{DOSD} = S_0^{ISO} + S_0^{DOS}$$

veya

$${}_0S_0^{DOSD} = {}_0S_0^{ISO} + {}_0S_0^{DOS}$$

veya

$${}_0S_0^{DOSD} = {}_0S_0^{ISO} + {}_0S_0^{DOS}$$

eşitlikleriyle hesaplanabileceği gibi, aynı şartlı ve aynı dağılımlardaki simetrik olasılıktan, aynı şartlı ve aynı dağılımlardaki toplam düzgün simetrik olasılığın farkından,

$$S_0^{DOSD} = S_0 - S_0^{DSD}$$

veya

$${}_0S_0^{DOSD} = {}_0S_0 - {}_0S_0^{DSD}$$

veya

$${}_0S_0^{DOSD} = {}_0S_0 - {}_0S_0^{DSD}$$

eşitlikleriyle de hesaplanabilir.

- Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrisinin bulunabileceği bağımlı durumlarla başlayan dağılımlardaki, düzgün olmayan simetrik

olasılıklar; aynı dağılımlardaki ilk düzgün olmayan simetrik olasılıkla, kalan düzgün olmayan simetrik olasılığın toplamından,

$$S_D^{DOSD} = S_D^{ISO} + S_D^{DOS}$$

veya

$${}_0S_D^{DOSD} = {}_0S_D^{ISO} + {}_0S_D^{DOS}$$

veya

$${}^0S_D^{DOSD} = {}^0S_D^{ISO} + {}^0S_D^{DOS}$$

eşitlikleriyle hesaplanabileceği gibi, aynı şartlı ve aynı dağılımlardaki simetrik olasılıktan, aynı şartlı ve aynı dağılımlardaki toplam düzgün simetrik olasılığın farkından,

$$S_D^{DOSD} = S_D - S_D^{DSD}$$

veya

$${}_0S_D^{DOSD} = {}_0S_D - {}_0S_D^{DSD}$$

veya

$${}^0S_D^{DOSD} = {}^0S_D - {}^0S_D^{DSD}$$

eşitlikleriyle de hesaplanabilir.

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## DİZİN

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VDOİHİ'de Olasılık ve İhtimal konularının tanım ve eşitlikleri verilmektedir. Ayrıca VDOİHİ'de olasılık ve ihtimalin uygulama alanlarına da yer verilmektedir. VDOİHİ konu anlatım ciltleri ve aynı cilt numaraları ile soru, problem ve ispat çözümlerinden oluşmaktadır. Bu cilt, bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu simetrisinin bağımsız durumla başlayan dağılımlarında simetrisiyle ilişkili toplam düzgün olmayan simetrik olasılığın eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimli Bağımlı-Bir Bağımsız Durumlu Simetrisinin Bağımsız Durumlarla Başlayan Dağılımlarında Simetrisiyle İlişkili Toplam Düzgün Olmayan Simetrik Olasılık kitabında, bağımlı durum sayısı, bağımlı olay sayısına eşit farklı dizilimli dağılımlar ve bir bağımsız olasılıklı dağılımla elde edilebilecek yeni olasılık dağılımlarından, bağımsız durumlarla başlayan dağılımlarda, bağımlı-bir bağımsız durumlardan oluşan simetrisinin, simetrisiyle ilişkili; düzgün olmayan simetrik olasılık eşitlikleri verilmektedir.

VDOİHİ'nin bu cildinde verilen toplam düzgün olmayan simetrik olasılık eşitlikleri teorik yöntemle üretilmiştir. Tanım ve eşitliklerin üretilmesinde dış kaynak kullanılmamıştır.

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