VDOİHİ

Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Bağımlı Durumlu Simetrinin Herhangi İki Durumuna Bağlı Toplam Düzgün Olmayan Simetrik Olasılık

Cilt 2.3.1.3.4.1.1.1

İsmail YILMAZ

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Matematik / İstatistik / Olasılık

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VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılık Cilt 2.3.1.3.4.1.1.1

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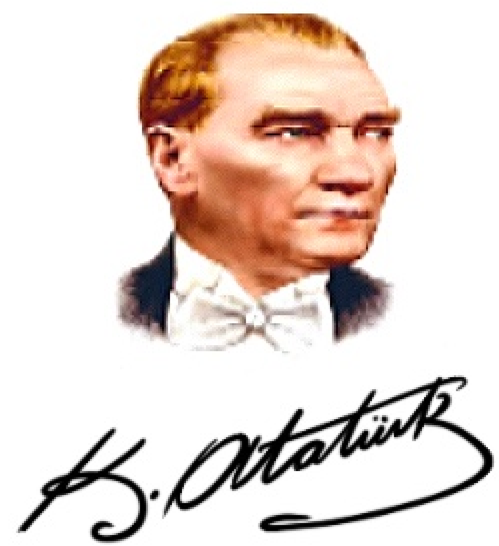
1. Bağımlı durumlu simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılık

Dili: Türkçe + Matematik Mantık



Türkiye Cumhuriyeti Devleti
Kuruluşunun
100.Yılı Anısına

d

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, yüksek lisans eğitimini Sakarya Üniversitesi Fen Bilimleri Enstitüsü Fizik Anabilim Dalında 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 deklaritif bilgi yapılarıyla birlikte matematik mantık yapıları üzerine çalışmalar yapmıştır. Yazarın farklı alanlarda yapmış olduğu çalışmalar arasında ölçme ve değerlendirmeye yönelik çalışmaları da mevcuttur.

VDOİHİ

Veri **D**eğişkenleri **O**lasılık ve **İ**htimal **H**esaplama **İ**statistiği (VDOİHİ) ile olasılık ve ihtimal yasa konumuna getirilmiştir.

VDOİHİ'de Olasılık;

- ✓ Makinaların insan gibi düşünebilmesini, karar verebilmesini ve davranabilmesini sağlayacak gerçek yapay zekayla ilişkilendirilmiştir.
- ✓ Dillerin matematik yapısı olduğu gösterilmiştir.
- ✓ Tüm tabanlarda, tüm dağılım türlerinde ve istenildiğinde dağılım türü ve tabanı değiştirerek çalışabilecek elektronik teknolojisinin temelidir.
- ✓ Teorik kabullerle genetikle ilişkilendirilmiştir.
- ✓ Bilgi merkezli değerlendirme yöntemidir.

Sanırım bilgi ve teknolojideki kaderimiz veriyle ilişkilendirilmiş.

f

İÇİNDEKİLER

Simge ve Kısaltmalar

n: olay sayısı

$\boldsymbol{n}$: bağımlı olay sayısı

$\mathbb{m}$: bağımsız olay sayısı

ι: bağımsız durum sayısı

I: simetrinin bağımsız durum sayısı

$\mathbb{l}$: simetrinin bağımlı durumlarından önce bulunan bağımsız durum sayısı

$\boldsymbol{I}$: simetrinin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

$\mathbb{k}$: simetrinin bağımlı durumları arasındaki bağımsız durumların sayısı

k: dağılımın başladığı bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

$\boldsymbol{l}$: ilgilenilen bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlarındaki sırası

${}_{i}\boldsymbol{l}$: simetrinin ilk bağımlı durumunun, bağımlı olasılık farklı dizilimsiz dağılımın son olayı için sırası. Simetrinin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

$\boldsymbol{l}_{i}$: simetrinin son bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin birinci bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

$\boldsymbol{l}_{s}$: simetrinin ilk bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

$\boldsymbol{l}_{ik}$: simetrinin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası veya simetrinin iki bağımlı durumu arasında bağımsız durum bulunduğunda, bağımsız durumdan önceki bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

$\boldsymbol{l}_{sa}$: simetrinin aranacağı bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin aranacağı bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

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 $\left(j_{sa}^{i} = s\right)$

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 bulunduğunda 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

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

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

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

j_{sa}: simetriyi oluşturan bağımlı durumlar arasında simetrinin aranacağı durumun bulunduğu olayın, simetrinin 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: simetrinin bağımlı durum sayısı

$\boldsymbol{s}$: simetrik durum sayısı. Simetrinin bağımlı ve bağımsız durum sayısı

m: olasılık

M: olasılık dağılım sayısı

U: uyum eşitliği

u: uyum derecesi

s_i: olasılık dağılımı

${}_{fz}S_{j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin son durumunun bulunabileceği olaylara göre simetrik olasılık

${}_{fz}S_{j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin son durumunun bulunabileceği olaylara göre simetrik olasılık

${}_{fz}S_{j_i,D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin son durumunun bulunabileceği olaylara göre simetrik olasılık

${}_{fz}^{0}S_{j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu simetrinin son durumunun bulunabileceği olaylara göre simetrik olasılık

${}_{fz}^{0}S_{j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu bağımsız simetrinin son durumunun bulunabileceği olaylara göre simetrik olasılık

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${}_{fz}S_{j^{sa}}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin durumuna bağlı simetrik olasılık

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${}_{fz}S^{DOSD}_{j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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${}^{0}_{fz}S^{DOSD}_{j_s,j_{ik},j^{sa},j_i,D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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E2

BAĞIMLI ve BİR BAĞIMSIZ OLASILIKLI FARKLI DİZİLİMSİZ DAĞILIMLAR

Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Dağılımlar

- **Simetrik Olasılık**
- **Toplam Düzgün Simetrik Olasılık**
- **Toplam Düzgün Olmayan Simetrik Olasılık**
- **İlk Simetrik Olasılık**
- **İlk Düzgün Simetrik Olasılık**
- **İlk Düzgün Olmayan Simetrik Olasılık**
- **Tek Kalan Simetrik Olasılık**
- **Tek Kalan Düzgün Simetrik Olasılık**
- **Tek Kalan Düzgün Olmayan Simetrik Olasılık**
- **Kalan Simetrik Olasılık**
- **Kalan Düzgün Simetrik Olasılık**
- **Kalan Düzgün Olmayan Simetrik Olasılık**

Bağımlı dağılım ve bir bağımsız olasılıklı durumla oluşturulabilecek dağılımlara ve bağımlı olasılıklı dağılımların kendi olay sayısından (bağımlı olay sayısı) büyük olarak (bağımsız olay sayısı) dağılımıyla bağımlı ve bir bağımsız olasılık dağılımlar elde edilir. Bağımlı dağılım farklı dizilimsiz dağılımdan oluştuğunda, bu dağılımlara bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlar denir. Bağımlı ve bir bağımsız olasılıklı dağılımlar; bağımlı dağılımlara, bağımsız durumlar ilk olaydan dağıtılmaya başlanarak tabloları elde edilir. Bu bölümde verilen eşitlikler, bu yöntemle elde edilen kurallı tablolara göre verilmektedir. Farklı dizilimsiz dağılımlarda durumların küçükten-büyüğe sıralanmasıyla elde edilebilen kurallı tablolar kullanılmaktadır. Farklı dizilimsiz dağılımlarda durumların küçükten-büyüğe sıralama için verilen eşitliklerde kullanılan durum sayılarının düzenlenmesiyle, büyükten-küçüğe sıralama durumlarının eşitlikleri elde edilebilir.

Farklı dizilimsiz dağılımlar, dağılımın ilk durumuyla başlayan (bunun yerine farklı dizilimli dağılımlarda simetrinin ilk durumuyla başlayan dağılımlar), dağılımın ilk durumu haricinde dağılımın herhangi bir durumuyla başlayan dağılımlar (bunun yerine farklı dizilimli dağılımlarda simetride bulunmayan bir durumla başlayan dağılımlar) ve dağılımın ilk durumu hariç olasılık dağılımının başladığı farklı ikinci durumla başlayıp simetrinin ilk durumuyla başlayan dağılımların sonuna kadar olan dağılımlarda (bunun yerine farklı dizilimli dağılımlarda simetride bulunmayan diğer durumlarla başlayan dağılımlar) simetrik, düzgün simetrik, düzgün olmayan simetrik v.d. incelenir. Bağımlı dağılımlardaki incelenen başlıklar, bağımlı ve bir bağımsız olasılıklı dağılımlarda, bağımsız durumla ve bağımlı durumla başlayan dağılımlar olarak da incelenir.

Bağımlı dağılımlar; a) olasılık dağılımlardaki simetrik, (toplam) düzgün simetrik ve (toplam) düzgün olmayan simetrik b) ilk simetrik, ilk düzgün simetrik ve ilk düzgün olmayan simetrik c) tek kalan simetrik, tek kalan düzgün simetrik ve tek kalan düzgün olmayan simetrik ve d) kalan simetrik, kalan düzgün simetrik ve kalan düzgün olmayan simetrik olasılıklar olarak incelendiğinden, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda bu başlıklarla incelenmekle birlikte, bu simetrik olasılıkların bağımsız durumla başlayan ve bağımlı durumlarıyla başlayan dağılımlara göre de tanımları ve eşitlikleri verilmektedir.

Farklı dizilimsiz dağılımlarda simetrinin durumlarının olasılık dağılımındaki sırası, simetrik olasılıkları etkilediğinden, bu bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımları da etkiler. Bu nedenle bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin durumlarının bulunabileceği olaylara göre simetrik olasılık eşitlikleri, simetrinin durumlarının olasılık dağılımındaki sıralamalarına göre ayrı ayrı verilecektir. Bu eşitliklerin elde edilmesinde bağımlı olasılıklı farklı dizilimsiz dağılımlarda simetrinin durumların bulunabileceği olaylara göre çıkarılan eşitlikler kullanılacaktır. Bu eşitlikler, bir bağımlı ve bir bağımsız olasılıklı dağılımlar için VDOİHİ Cilt 1'de çıkarılan eşitliklerle birleştirilerek, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımların yeni eşitlikleri elde edilecektir. Eşitlikleri adlandırılmasında da bağımlı olasılıklı farklı dizilimsiz dağılımlarda kullanılan adlandırmalar kullanılacaktır. Bu adların sonuna simetrinin bağımlı ve bağımsız durumlarına göre ve dağılımın bağımsız veya bağımlı durumla başlamasına göre "Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı/bağımsız-bağımlı/bağımlı-bir bağımsız/bağımlı-bağımsız/bağımsız-bağımsız durumlu [illegible]/bağımsız/bağımlı" kelimeleri getirilerek, simetrinin bağımlı durumlarının bulunabileceği olaylara göre bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz adları elde edilecektir. Simetriden seçilen durumların bulunabileceği olaylara göre simetrik, düzgün simetrik veya düzgün olmayan simetrik olasılık için birden fazla ad kullanılması durumunda gerekmedikçe yeni tanımlama yapılmayacaktır.

Simetrinin durumlarının bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırasına göre verilen eşitliklerdeki toplam alt sınır değerleri, simetrinin küçükten-büyüğe sıralanan dağılımlarına göre verildiğinden, bu dağılımlarda da aynı sıralama kullanılmaya devam edilecektir. Bağımlı olasılıklı farklı dizilimsiz dağılımlarda olduğu gibi bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda da aynı eşitliklerde simetrinin durum sayıları düzenlenerek, büyükten-küçüğe sıralanan dağılımlar için de simetrik olasılık eşitlikleri elde edilir.

Bu kitapta bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin herhangi bir durumuna bağlı toplam düzgün olmayan simetrik olasılığın eşitlikleri verilmektedir.

SİMETRİDEN SEÇİLEN İKİ DURUMA GÖRE TOPLAM DÜZGÜN OLMAYAN SİMETRİK OLASILIK

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde, simetrinin herhangi iki durumunun bulunabileceği olaylara bağlı, düzgün olmayan simetrik durumların bulunduğu dağılımların sayısını verecek eşitlik; bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı simetrik olasılık eşitliğinden, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı düzgün simetrik olasılık eşitliğinin farkından elde edilebilir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde, simetrinin herhangi iki durumunun bulunabileceği olaylara göre, toplam düzgün olmayan simetrik olasılıklar için,

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \right.
$$

$$
\sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\text{[illegible]})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
$$

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

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

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

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j^{ik}_{sa}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} \right.
$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde, simetrinin herhangi iki durumunun bulunabileceği olaylara bağlı; düzgün olmayan simetrik durumların bulunduğu dağılımların sayısına **bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılık** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılık ${}_{fz}S^{DOSD}_{j_{ik},j^{sa}}$ ile gösterilecektir.

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} + 1 \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} = \boldsymbol{l_{ik}}\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{s}$ [illegible] j_{sa} [illegible] $\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j^{i}_{sa} - 1 \wedge j^{ik}_{s}$ [illegible] $= j_{sa} - 1 \wedge j_{s}$ [illegible] $\leq j^{ik}_{sa} - 1$ [illegible]

$\boldsymbol{s}: \{j^{s}_{sa}$ [illegible] $, j^{ik}$ [illegible] $\mathbb{k}, j_{sa},$ [illegible] $j^{i}_{sa}\} \wedge$

s [illegible] $4 \wedge \boldsymbol{s} = s$ [illegible] $\wedge$

$\mathbb{k}_z:$ [illegible] $1 \Rightarrow$

$${}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = 0$$

$D \geq$ [illegible] $n \wedge \boldsymbol{l_s}$ [illegible] $- \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} + 1 \leq j$ [illegible] $\leq j^{sa} + j^{ik}_{sa} - j_{sa} - 1 \wedge$

[illegible] $j^{ik}_{sa} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j^{i}_{sa} - 1 \wedge j^{ik}_{sa} = j_{sa} - 1 \wedge j^{s}_{sa} \leq j^{ik}_{sa} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!} \cdot \frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \right.
$$

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\ \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\ \sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j\text{[illegible]})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} \text{[illegible]} j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j\text{[illegible]}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(\text{[illegible]}a + j_{sa}^{ik} - j_{ik} \text{[illegible]} j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + \text{[illegible]} - \boldsymbol{l_{sa}} - \text{[illegible]})!}{(D + j^{sa} - \boldsymbol{n} - \text{[illegible]})! \cdot \text{[illegible]} + j_{sa} \text{[illegible]}^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\text{[illegible]}} \sum_{(j_{ik}=j\text{[illegible]}_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{\text{[illegible]}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+\text{[illegible]}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} <$ [illegible] $\wedge\, \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \le j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \le j_{sa}^{ik} - 1 \wedge$

$\mathbf{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \ge 4 \wedge \mathbf{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\mathbf{l_{ik}}+j_{sa}-\mathbf{n}-\mathbf{l_{sa}}-j_{sa}^{ik}} \sum_{(j_{ik}=\mathbf{l_{sa}}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-k}^{\mathbf{l_{sa}}-k+1} \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l_{ik}} - k - j_{sa}^{ik})!}{(\mathbf{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - \mathbf{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + $$

$$ \left(\sum_{k=1}^{D+\mathbf{l_{ik}}+j_{sa}-\mathbf{n}-\mathbf{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\mathbf{l_s}+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(\mathbf{l_{sa}}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\mathbf{l_{sa}}+\mathbf{n}-D}^{\mathbf{l_{sa}}-k+1} \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. $$

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\;\sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\;\sum_{j^{sa}=j_{ik}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\;\sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}-j_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D-j_{sa}-\boldsymbol{l_s}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_s})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum^{D+\boldsymbol{l_s}+s-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot \frac{\big(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\big)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \big(j_{ik} - j_{sa}^{ik} - 1\big)!} \cdot \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +
$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\;\sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} = j^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\}$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}} - j_{sa}^{ik} + 1}\right.$$

$$\sum_{(j_{ik} = \boldsymbol{l_{sa}} + \boldsymbol{n} + j_{sa}^{ik} - D - j_{sa})}^{(\boldsymbol{l_{ik}} - k + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}\ldots}^{\left(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1\right)}\ \sum_{j^{sa}=\ldots+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-\text{[illegible]}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-\text{[illegible]}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}\text{[illegible]})!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\text{[illegible]}+j_{sa}-j\text{[illegible]}s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\text{[illegible]}sa-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\ \sum_{\text{[illegible]}=\boldsymbol{l_{ik}}+\boldsymbol{n}\text{[illegible]}}^{(\boldsymbol{l_{ik}}-k+\text{[illegible]}}\ \sum_{\text{[illegible]}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n\text{[illegible]}}\ \sum_{(n_{ik}\text{[illegible]}+\Bbbk-j_{ik}+1)}^{(n_i-j\text{[illegible]}1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}[illegible])}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I[illegible]\cdot(\boldsymbol{n}-s)[illegible]}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot[illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]j_{sa})!\cdot(\boldsymbol{n}[illegible]j_{sa}-j^{sa}-s[illegible]}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-[illegible]\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}[illegible]j_{sa}-s>[illegible] \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0$ [illegible]

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1$ [illegible] $\leq j_{sa}^{ik}-1$ [illegible]

$\boldsymbol{s}:\{j_{s[illegible]}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{s[illegible]},\cdots,j_{sa}^{i}\} \wedge$

s [illegible] $4 \wedge \boldsymbol{s}=$ [illegible] $\Bbbk \wedge$

$\Bbbk_z$ [illegible] $=1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}-D-1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-[illegible])!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\;)}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+[illegible]-D-s}^{\boldsymbol{l_s}+[illegible]a-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{}\sum_{(n[illegible]\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i[illegible])}$$

$$\sum_{n_{ik}[illegible]+j_{sa}^{s}-j_{sa}^{[illegible]}}\sum_{([illegible]a=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{(n_i-s-I)!}{[illegible]n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{([illegible]\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+[illegible]sa[illegible]-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D[illegible]\boldsymbol{n} < n \wedge [illegible] > D - [illegible] 1 \wedge$

$j_{sa}^{ik}[illegible]1 \leq j_{ik} \leq j^{s[illegible]}[illegible]j_{sa}^{ik} - j_{sa}[illegible]$

$[illegible] + j_{sa}[illegible]j_{sa}^{ik} \leq j^{sa} \leq [illegible] + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - [illegible] + 1 [illegible] + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D [illegible] \boldsymbol{n} < [illegible] I = \Bbbk \geq 0 \wedge$

$[illegible] \leq j_{sa}^{i} [illegible] \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j^{ik}_{sa}-D-1)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\frac{(D-j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-
$$

$$
\sum_{k=1}^{\boldsymbol{l_s}+s-\boldsymbol{n}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

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

$$
\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$
\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot
$$

$$
\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}
$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa}+1 \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}\cdots+1} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} - $$

$$ \sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+j_{sa}-k} $$

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

$$ \sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )} $$

$$\frac{(n_i-s-I)!}{(n_i-\mathbf{n}-I)!\cdot(\mathbf{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\mathbf{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\mathbf{n}<n\wedge\boldsymbol{l_s}>D-\mathbf{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\mathbf{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D\geq\mathbf{n}<n\wedge I=\Bbbk\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z: z=1\Rightarrow$

$$f^{DOSD}_{j_{ik},j^{sa}}=\sum_{k=1}^{D-\mathbf{n}+1}\sum_{(j_{ik}=\boldsymbol{l_i}+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\boldsymbol{l_{sa}})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-[illegible])}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i [illegible])!}{([illegible] - \boldsymbol{n} - I)! \cdot ([illegible] s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k [illegible])!}{(\boldsymbol{l_s} + j_{sa} [illegible] j_{ik} [illegible])! \cdot (j_{ik} [illegible] j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - [illegible])!}{(D + j^{sa} + s - \boldsymbol{n} - [illegible] - j_{sa})! \cdot ([illegible] \boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j$ [illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}$ [illegible] $_{a} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l}$ [illegible] $\wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} -$ [illegible] $> \boldsymbol{l_{ik}} \wedge \boldsymbol{l}$ [illegible] $j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq$ [illegible] $< n \wedge I = \Bbbk$ [illegible] $0 \wedge$

j_{sa} [illegible] $\leq j_{sa}^{i} - 1 \wedge$ [illegible] $^{ik} = j_{sa}$ [illegible] $1 \wedge j_{sa}^{s} \leq$ [illegible] $_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j$ [illegible] $\cdots, j_{sa}^{ik}, \Bbbk, j_{sa},$ [illegible] $j_{sa}^{i}\} \wedge$

[illegible] $\geq 4 \wedge \boldsymbol{s}$ [illegible] $s + \Bbbk \wedge$

$\Bbbk_z: z$ [illegible] $1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}-k)}\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-1)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{ik} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \land$

$D \geq \boldsymbol{n} < n \land I=\Bbbk \geq 0 \land$

$j_{sa} \leq j_{sa}^{i}-1 \land j_{sa}^{ik}=j_{sa}-1 \land j_{sa}^{s} \leq j_{sa}^{ik}-1 \land$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\} \land$

$s \geq 4 \land \boldsymbol{s}=s+\Bbbk \land$

$\Bbbk_z: z=1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-\text{[illegible]})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\text{[illegible]}s+1}$$

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

$$\frac{(n_i-\text{[illegible]}-1)!}{(j_{ik}-\text{[illegible]})!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{\text{[illegible]}}-n_{sa}-1)!}{(\text{[illegible]}^{sa}-j_{ik}\text{[illegible]})!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!}$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk > 0 \land$

$j_{sa}^{s} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{1}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \land$

$\boldsymbol{s} \geq 4 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=[illegible]}^{D-\boldsymbol{n}+1}\;\sum_{(j_{ik}=\boldsymbol{l_s}+[illegible]-D-1)}^{([illegible]+j_{sa}^{ik}-k)}\;\sum_{[illegible]-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\;\;)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\ldots)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot([illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_s-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\ldots,j_{sa}^{ik},\mathbb{k},\ldots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = [illegible] + \mathbb{k} \wedge$

$[illegible]\, z = 1 [illegible]$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{\text{[illegible]}1}^{D-\text{[illegible]}}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}-\text{[illegible]}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}\text{[illegible]})}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\text{[illegible]})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\text{[illegible]}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(\text{[illegible]}\ s-\text{[illegible]})!}{(\text{[illegible]}-\boldsymbol{n}-I)!\cdot(\text{[illegible]}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k\ \text{[illegible]}\ 1)!}{(\boldsymbol{l_s}+j_{sa}\ \text{[illegible]}\ j_{ik}\ \text{[illegible]}\ k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\text{[illegible]})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-\text{[illegible]}$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}\ \text{[illegible]}\ -s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\text{[illegible]}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l}\ \text{[illegible]}\ j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \text{[illegible]} < n \wedge \boldsymbol{l_s} > \text{[illegible]}-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq \text{[illegible]}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}\ \text{[illegible]}-j_{sa}^{ik} \leq j^{s}\ \text{[illegible]}\ \boldsymbol{n}+j_{sa}\ \text{[illegible]}\ s \wedge$

$\text{[illegible]}-j_{sa}^{ik}\ \text{[illegible]} > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}\ \text{[illegible]}\ j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \text{[illegible]} < n \wedge \text{[illegible]}-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq \text{[illegible]} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$\text{[illegible]}+j_{s}\text{[illegible]}\ j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\!:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge \boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z\!: z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{sa}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{sa}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-
$$

$$
\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}
$$

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

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$
\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot
$$

$$
\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\Big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\!:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+1 \wedge$

$\mathbb{k}_z\!: z \geq 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}\ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s}\ldots)}$$

$$\sum_{n_{ik}=\ldots+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}>D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\lor$

$(D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}>D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\big)\land$

$D\geq\boldsymbol{n}<n\land I=\mathbb{k}\geq 0\land$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$
\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}
$$

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

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$
\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$${}_{j_i}S^{DOS}_{j_{ik},ik}=\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_s}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\Bbbk)}^{()}$$

$$\frac{(n_{sa}-s-I)!}{(n_{sa}-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}\colon\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\colon z=1\Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\cdots-j_{ik})}^{(n_i\cdots+1)}$$

$$\sum_{n_{ik}=\cdots j_{sa}^{s}-\cdots} \sum_{(\cdots=n_{ik}\cdots-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\cdots - k - 1)!}{(\cdots + j_{sa}^{ik} - j_{sa} - k)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(\cdots - \boldsymbol{l_i})!}{(D + j^{sa} + \cdots - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\Big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
\frac{(\boldsymbol{l_i}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_i}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible])!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \quad \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D [illegible]\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \quad \sum_{[illegible]=j_{ik}+[illegible]-j_{sa}^{ik}}$$

$$\sum_{[illegible]=\boldsymbol{n}+\mathbb{k}} \quad \sum_{(n_{is}[illegible]+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s[illegible])}$$

$$\sum_{n_{ik}=[illegible]j_{sa}^{s}-j_{sa}^{ik}} \quad \sum_{([illegible]=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i - s - I)!}{([illegible]n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{([illegible]\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + [illegible] s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge [illegible] > D - [illegible] + 1 \wedge$

$j_{sa}^{ik} + [illegible] \leq j_{ik} \leq j^{sa} + [illegible] - j_{sa} \wedge$

$j_{ik} + j_{sa} - [illegible] \leq j^{sa} \leq [illegible] + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} [illegible] + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < [illegible] \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$[illegible] j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} = j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s+\mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j_{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})! \cdot (\boldsymbol{n}+j_{sa}-j^{sa}-s)!} +
$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge$ [illegible] $= \mathbb{k} \geq$ [illegible]

j_{sa} [illegible] $j_{sa}^{i} - 1 \wedge j_{sa}^{ik}$ [illegible] $j_{sa} - 1$ [illegible] $\leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s - \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} $$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\text{[illegible]}j_{sa}^{ik}-D-j_{sa}\text{[illegible]})}^{(\boldsymbol{l_{ik}}-k\text{[illegible]})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\text{[illegible]}1}$$

$$\sum_{n_i=\boldsymbol{n}+\text{[illegible]}}^{n} \sum_{(\text{[illegible]}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n\text{[illegible]}j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\text{[illegible]})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I\text{[illegible]})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(\text{[illegible]}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]}j_{sa})!\cdot(\boldsymbol{n}\text{[illegible]}j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\text{[illegible]}\ \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D+j_{sa}-\boldsymbol{n} \wedge \boldsymbol{l_i} \leq \text{[illegible]}+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{\text{[illegible]}}\ \text{[illegible]}\ j_{sa}-1 \wedge j_{sa}^{s}\ \text{[illegible]}\ j_{sa}^{ik}-\text{[illegible]} \wedge$

$\boldsymbol{s}\text{[illegible]}\{j_{sa}^{s},\cdots,j_{sa}^{\text{[illegible]}},\text{[illegible]}\ j_{sa},\cdots,\text{[illegible]}\} \wedge$

$s \geq \text{[illegible]} \wedge \boldsymbol{s}=s+\mathbb{k}$

$\mathbb{k}_z: z=\text{[illegible]} \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{\ldots-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=\ldots-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-[illegible])!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-[illegible])!}\cdot$$

$$\frac{([illegible]-\boldsymbol{l_{sa}}-s)!}{([illegible]+j^{sa}-\boldsymbol{n}-[illegible])!\cdot([illegible]-j^{sa}-s)!}-$$

$$\sum_{k=1}^{\boldsymbol{l}-1}\ \sum_{([illegible]=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ _i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$${}_{fz}S_{j_{sa}}^{DSD} = \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k}\text{[illegible]} \cdot (\boldsymbol{n} - s\text{[illegible]}} \cdot$$

$$\frac{(D - \boldsymbol{l_i}\text{[illegible]}}{(D + s - \text{[illegible]}\boldsymbol{l}\text{[illegible]})! \cdot \text{[illegible]}\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \text{[illegible]}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{\text{[illegible]}} \} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z \text{[illegible]} 1 \Rightarrow$

$$\text{[illegible]}_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}[illegible]}$$

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

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

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

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

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)+$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-[illegible])}^{(\ )}\sum_{j^{sa}=[illegible]+1}^{\boldsymbol{l_{ik}}+[illegible]-k-j_{sa}^{ik}+1}$$

$$\sum_{[illegible]=\boldsymbol{n}+\Bbbk}\sum_{(n_{[illegible]}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s[illegible])}$$

$$\sum_{n_{ik}=[illegible]+j_{sa}^{s}-j_{sa}^{ik}}\sum_{[illegible]=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{(n_i-s-I)!}{([illegible]n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{([illegible]\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j[illegible]-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{j_{ik}=j^{sa}+j_{sa}-\ldots}^{(\ldots)} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-\ldots} \right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

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

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

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

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot([illegible]-s)!}\right)$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=[illegible]+1)}^{(j^{sa}+j_{sa}[illegible]-1)}\sum_{j^{sa}=j_{sa}[illegible]}^{\boldsymbol{l_s}[illegible]-k}\right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible])}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot([illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+[illegible]-j^{sa}-s)!}$$

$$\sum_{[illegible]}\ \sum_{(j_{ik}=j_{sa}^{ik})}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=[illegible]\Bbbk}^{n}\ \sum_{(n_{ik}=n[illegible]ik+1)}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}}$ [illegible] $D + j_{sa}$ [illegible] $\boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq$ [illegible] $\leq j^{sa} + j_{sa}^{ik}$ [illegible] $_{sa} - 1 \wedge$

$j_{ik} + j_{sa} -$ [illegible] $+ 1 \leq j^{s}$ [illegible] $\leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}}$ [illegible] $+ 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n$ [illegible] $I = \Bbbk \geq 0 \wedge$

[illegible] $1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}} \right.
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=\,{}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

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

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

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

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

$$
\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)+
$$

$$
\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}+1}^{\boldsymbol{l_{sa}}-k+1} \right.
$$

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

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

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

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

$$\frac{(\boldsymbol{l_i} - k - j_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)!\cdot(j_{ik} - j_{sa}^{ik} - 1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})!\cdot(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})!\cdot(\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\,_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-\,_{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})!\cdot(j^{sa} - j_{sa})!}\cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})!\cdot(\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\ldots-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i \ldots)!}{(\ldots - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} \ldots s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k \ldots)!}{(\boldsymbol{l_s} + j_{sa}^{ik} \ldots \boldsymbol{l_{ik}} \ldots)! \cdot (j_{ik} \ldots j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i} \ldots)!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} \ldots j_{sa})! \cdot (\ldots + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \ldots \leq D - \ldots + 1 \wedge$

$j_{sa}^{ik} \ldots j_{ik} \ldots j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - \ldots + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} \ldots j_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!} \cdot \frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} + \right.
$$

$$
\left. \sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!} \cdot \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!} \right) +
$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}\text{[illegible]}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{s}\text{[illegible]}}\ \sum_{n_{sa}=n_{ik}+j_{ik}-\text{[illegible]}\mathbb{k})}^{(\ )}$$

$$\frac{(\text{[illegible]}-s-I)!}{(\text{[illegible]}\boldsymbol{n}-\text{[illegible]}\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\text{[illegible]}-k-1)!}{(\boldsymbol{l_s}+j_{s}\text{[illegible]}-j_{ik}-\text{[illegible]}\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\text{[illegible]})!}{(\text{[illegible]}j^{sa}+s-\text{[illegible]}-\boldsymbol{l_i}-j_{sa}\text{[illegible]}\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n$ [illegible] $\boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

[illegible] $\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}-j_{sa})}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}\ [illegible]\ j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{[illegible]})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot([illegible]-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{i[illegible]}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+[illegible])!\cdot(j_{ik}-j_{sa}^{ik}[illegible])!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}[illegible]-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}[illegible])!\cdot(j^{sa}[illegible]-j_{sa})!}\cdot$$

$$\frac{([illegible]+j_{sa}-[illegible]-s)!}{([illegible]D+j^{sa}-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}[illegible]j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}^{[illegible]} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\ldots)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\ldots-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-\ldots)!}{(\ldots-\boldsymbol{n}-I)!\cdot(\ldots s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-\ldots)!}{(\boldsymbol{l_s}+j_{sa}\ldots j_{ik}\ldots)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\ldots)!}{(D+j^{sa}+s-\boldsymbol{n}-\ldots-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-$ [illegible]

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \ldots+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\ldots>\boldsymbol{l_{ik}} \wedge$

$D+j\ldots-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_{ik}}+j_{sa}-\ldots \wedge$

$D \geq \boldsymbol{n} < n \wedge \ldots \Bbbk \geq 0 \wedge$

$j_{sa}\ldots-1 \wedge j_{sa}^{ik}\ldots-1 \wedge \ldots \leq j_{sa}^{ik}-1 \wedge$

$\ldots\{j_{sa}^{s},\cdots,\ldots,\Bbbk,j_{sa},\cdots,\ldots\} \wedge$

$s \geq 4 \ldots \boldsymbol{s}=s+\ldots$

$\Bbbk_z: z=1$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{\text{[illegible]}=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-\text{[illegible]}+1} \sum_{\text{[illegible]}=j_{sa}^{ik}+1)}^{(j^{sa}+\text{[illegible]}j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}\right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{\ldots\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+j_{sa}-s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z: z=1 \Rightarrow$

$$
{}_{\Bbbk_z}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.
\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+
$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1} \; \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \; \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \; \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ \ )} \; \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)\cdots}\cdots$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D\cdots\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+\cdots-j_{sa}^{ik}}^{\cdots}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\cdots}\ \sum_{\left(n_{ik}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-\cdots)}$$

$$\sum_{n_{ik}=\cdots+j_{sa}^{s}-j_{sa}^{ik}\cdots}^{\cdots}\ \sum_{\cdots=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\cdots}$$

$$\frac{(n_i-s-I)!}{(\cdots n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+\cdots^{sa}\cdots s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \cdots \leq D - \cdots 1 \wedge$

$j_{sa}^{ik} \cdots j_{ik} \leq j^{sa} + j_{sa}^{\cdots} \cdots j_{sa} - 1 \cdots$

$\cdots + j_{sa} \cdots j_{sa}^{ik} + 1 \leq j^{s\cdots} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - \cdots^{ik} + 1 \cdots a + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \cdots \leq \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \wedge$

$\cdots \geq \boldsymbol{n} < \cdots \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \right.
$$

$$
\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa})}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-\text{[illegible]}}^{\text{[illegible]}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$
\left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-\dots\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-\dots-s)!}\cdot$$

$$\sum_{k=\dots\boldsymbol{l}_{i}}\ \sum_{(j_{ik}\dots)}^{(\dots)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-\dots}^{\dots+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j^{ik}_{sa} - j_{ik} - k\right)! \cdot \left(j_{ik} - j^{ik}_{sa} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} \le D - \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} \le j_{ik} \le j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} = \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \le D + j^{ik}_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \le D + s - \boldsymbol{n} \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \mathbb{k} \ge 0 \wedge$

$j_{sa} \le j^{i}_{sa} - 1 \wedge j^{ik}_{sa} = j_{sa} - 1 \wedge j^{s}_{sa} \le j^{ik}_{sa} - 1 \wedge$

$\boldsymbol{s}: \left\{j^{s}_{sa}, \cdots, j^{ik}_{sa}, \mathbb{k}, j_{sa}, \cdots, j^{i}_{sa}\right\} \wedge$

$s \ge 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$[illegible]^{DSD}_{[illegible]j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa}\right)}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j^{ik}_{sa} - 1\right)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\,_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})[illegible]}{(D+s-[illegible]\boldsymbol{l_i})!\cdot[illegible]\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \leq D + j_{sa}^{ik} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa}$ [illegible] $\wedge j_{sa}^{s} \leq j_{sa}^{ik}$ [illegible] $\wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4$ [illegible] $\boldsymbol{s} = s + \Bbbk$ [illegible]

$\Bbbk_z$ [illegible] $z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-\ldots)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-j_{sa}+1\right)}\ \sum_{j^{sa}=j_{ik}+\ldots-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{\left(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk\right)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{(j_{ik} = j_{sa}^{ik})}^{(\ )} \sum_{j^{sa} = j_{sa} \text{[illegible]}} \text{[illegible]}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} \text{[illegible]}} \text{[illegible]}$$

$$\frac{\text{[illegible]}(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} \text{[illegible]} \mathbb{k})! \cdot (\boldsymbol{n} - s \text{[illegible]})!} \cdot$$

$$\frac{\text{[illegible]}}{(D \text{[illegible]} s - \boldsymbol{n} - \boldsymbol{l_i}) \text{[illegible]} (\boldsymbol{n} - s)!}$$

$\Big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} +$ [illegible] $- s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}$ [illegible] $j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})$ [illegible]

$(D \geq$ [illegible] $<$ [illegible] $\boldsymbol{l_s} \leq D$ [illegible] $\boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}$ [illegible] $- j_{sa}$

$j_{ik} +$ [illegible] $- j_{sa}^{ik} \leq j^{sa}$ [illegible] $+ j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} +$ [illegible] $> \boldsymbol{l_s} \wedge$

$\boldsymbol{l_{sa}}$ [illegible] $+ j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n})\Big) \wedge$

$D \geq \boldsymbol{n} < n$ [illegible] $I = \mathbb{k} \geq 0 \wedge$

[illegible] $- 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot $$

$$ \frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+ $$

$$ \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_{sa}}-k+1} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot $$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\,_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}\text{[illegible]}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}\text{[illegible]}}\ \sum_{\text{[illegible]}\,j_{ik}\text{[illegible]}sa-\mathbb{k}}$$

$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}\text{[illegible]}\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{\text{[illegible]}}{(D\text{[illegible]}s-\boldsymbol{n}-\boldsymbol{l_i})\text{[illegible]}(\boldsymbol{n}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+\text{[illegible]}a-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}\text{[illegible]}j_{sa}>\boldsymbol{l_{ik}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n})$

$(D\geq\boldsymbol{n}<\text{[illegible]}\boldsymbol{l_s}\leq D\text{[illegible]}\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}\text{[illegible]}-j_{sa}$

$j_{ik}+\text{[illegible]}-j_{sa}^{ik}\leq j^{sa}\text{[illegible]}+j_{sa}-s\wedge$

$\boldsymbol{l_{sa}}-j_{sa}+\text{[illegible]}>\boldsymbol{l_s}\wedge$

$\boldsymbol{l_{sa}}\text{[illegible]}+j_{sa}-\boldsymbol{n}\wedge\boldsymbol{l_i}\leq D+s-\boldsymbol{n})\big)\wedge$

$D\geq\boldsymbol{n}<n\text{[illegible]}I=\mathbb{k}\geq 0\wedge$

$j\text{[illegible]}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_{sa}}-k+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\ldots-j_{ik})}^{(n_i-\ldots+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}} \sum_{\ldots=n_{ik}\ldots-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\ldots - k - 1)!}{(\ldots + j_{sa}^{ik} - j_{\ldots} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\ldots \boldsymbol{l_i})!}{(D + j^{sa} + s \ldots \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \land \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}+$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{[illegible]\,\boldsymbol{l}}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{[illegible]}\ \sum_{[illegible]+1}^{[illegible]\,j_{sa}-\ _{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-\ _{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-\ _{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\ _{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{ik}}-\ _{i}\boldsymbol{l}+1\right)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-\ _{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-\ _{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}\ldots{}_{i}\boldsymbol{l}-j_{sa}\ldots)!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+\ldots)!\cdot(j_{ik}-j_{sa}^{ik}\ldots)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\ldots\boldsymbol{l}_{\ldots}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\ldots)!\cdot(j^{sa}+\ldots-j_{sa})!}\cdot$$

$$\left.\frac{(D\ldots j_{sa}-\boldsymbol{l_{s}}\ldots-s)!}{(\ldots+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{s}}\ldots)!\cdot(\boldsymbol{n}+\ldots-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_i \cdots a}^{DO} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!}\right) +$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1} \right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}\text{[illegible]}j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

$$\frac{(n_i - \text{[illegible]} - 1)!}{(\text{[illegible]})! \cdot (n_i - \text{[illegible]} - j_{ik} + 1)!} \cdot$$

$$\frac{(\text{[illegible]} - n_{sa} - \text{[illegible]})!}{(j^{sa} - \text{[illegible]} - 1)! \cdot (\text{[illegible]} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa}\text{[illegible]}1)!}{(n_{sa} + \text{[illegible]} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\text{[illegible]} - {}_{i}\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(\text{[illegible]} + \boldsymbol{l}\text{[illegible]} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}\dots}$$

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

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}\dots\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\dots)!}{(D\dots s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\dots+j_{sa}-\dots$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{s\dots}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l}_{\dots}\leq D+\boldsymbol{l_{ik}}+j_{s\dots}-\boldsymbol{n}-j_{sa}^{ik}\dots$

$D\geq\boldsymbol{n}<n\wedge\dots=\Bbbk\geq\dots\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{\dots}=j_{sa}-\dots\wedge j_{sa}^{s}\dots j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa},\dots,j_{sa}^{ik},\Bbbk,j_{sa},\dots,j_{sa}^{i}\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=\dots+\Bbbk\wedge$

$\Bbbk_z:\dots 1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=\dots}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+\dots} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l}_{ik}+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{sa}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_{ik}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l}_{sa}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l}_{ik}-k-j_{sa}^{ik})!}{(\boldsymbol{l}_{ik}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(j_{ik}+j_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l}_{ik}+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{sa}-j_{sa}^{ik}+2}^{\boldsymbol{l}_{ik}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_{ik}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D}^{\boldsymbol{l}_{sa}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l}_{ik}-k-j_{sa}^{ik})!}{(\boldsymbol{l}_{ik}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{\cdots})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{\cdots}-s)!}\Bigg)\cdots$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{(\cdots=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-\cdots)}^{\cdots}$$

$$\sum_{n_i=\cdots+\Bbbk}^{\cdots}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(\cdots j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{\cdots}\cdots j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(\cdots+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}\cdots\wedge\boldsymbol{l_s}\leq D-\cdots+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j\cdots+j^{ik}\cdots j_{sa}-1\wedge$

$j_{ik}\cdots j_{sa}\cdots j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+\cdots>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk\geq0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\text{[illegible]}}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-[illegible]-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\dots\boldsymbol{l}}\ \sum_{(j_{ik}=\dots\boldsymbol{n}-D)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)}\ \sum_{j^{sa}=\dots-D}^{\dots j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1\right)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}-j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D-j_{sa}-\boldsymbol{l_s}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_s})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}-\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{j_{ik}=j^{sa}+j_{s[illegible]}}^{([illegible])} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s[illegible]} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

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

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

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

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-\text{[illegible]}}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}\text{[illegible]}-j_{sa})}^{(\ )}\sum_{j\text{[illegible]}j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}\sum_{(\text{[illegible]}\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i\text{[illegible]}}$$

$$\sum_{n_{ik}\text{[illegible]}+j_{sa}^{s}-j_{sa}^{\text{[illegible]}}}\sum_{\text{[illegible]}_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\text{[illegible]}}$$

$$\frac{(n_i-s-I)!}{\text{[illegible]}n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{\text{[illegible]}\boldsymbol{l_s}-k-1)!}{\text{[illegible]}(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+\text{[illegible]}+\text{[illegible]}\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{j_{ik}=j^{sa}+j_{sa}\text{[illegible]}}^{(\text{[illegible]})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

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

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

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

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

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=\ldots+j_{sa}^{s}-j_{sa}}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+k-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge I\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_i}\wedge\boldsymbol{l_s}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk\geq 0\wedge$

$j_{sa}\leq j_{sa}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z: z=1\Rightarrow$

$${}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

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

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

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

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible])}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-[illegible])\cdot(\boldsymbol{n}-s)[illegible]}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot[illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l}[illegible])!\cdot(\boldsymbol{n}+[illegible]-j^{sa}-s)[illegible]}$$

$$\sum_{[illegible]} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i-s-\ \mathbb{k})!}{(n_i-\boldsymbol{n}-\ \mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s}$ [illegible] $D-\boldsymbol{n}+$ [illegible] $\wedge$

$j_{sa}^{ik} \leq$ [illegible] $\leq j^{sa}+j_{sa}^{ik}$ [illegible] $_{sa} \wedge$

$j_{ik}+j_{sa}-$ [illegible] $\leq j^{sa} \leq$ [illegible] $+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}$ [illegible] $+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n}$ [illegible] $\boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa} \wedge$

[illegible] $\wedge I=\mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} $$

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

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

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

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

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} - $$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-[illegible])}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i [illegible])!}{([illegible]-\boldsymbol{n}-I)!\cdot([illegible] s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k [illegible])!}{(\boldsymbol{l_s}+j_{sa} [illegible] j_{ik} [illegible])!\cdot(j_{ik} [illegible] j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-[illegible])!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]-j_{sa})!\cdot([illegible]\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} [illegible] - s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l}[illegible] \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-[illegible]=\boldsymbol{l_{ik}} \wedge \boldsymbol{l}[illegible] j_{sa}-s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq [illegible] + s - \boldsymbol{n} \wedge$

$D [illegible] \boldsymbol{n} < n \wedge [illegible] \mathbb{k} \geq 0 [illegible]$

$j_{sa} [illegible] _{sa}^{i} - 1 \wedge j_{sa}^{ik} [illegible] - 1 [illegible] \leq j_{sa}^{ik}-1 \wedge$

$[illegible]\{j_{sa}^{s}, \cdots [illegible]^{ik}, \mathbb{k}, j_{sa}, \cdots, [illegible]\} \wedge$

$s \geq 4 [illegible] \boldsymbol{s} = s [illegible]$

$\mathbb{k}_z : z = 1$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - [illegible])!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}[illegible]\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} [illegible] j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} [illegible])!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - [illegible] s)!} +$$

$$\sum_{k=[illegible]} \sum^{(\ )}_{[illegible]} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{[illegible]} \sum_{(n_{ik}[illegible]+\Bbbk-j_{ik}+1)}^{(n_i-[illegible]+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s[illegible]} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

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

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} -$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible])!}$$

$$\sum_{k=[illegible]} \sum_{(j_{ik}=j_{sa}^{ik}[illegible])}^{(\ )} \sum_{[illegible]^{sa}=j_{sa}}$$

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

$$\frac{[illegible] - s - \mathbb{k})!}{[illegible] - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{([illegible] + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{s[illegible]}$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - [illegible]^{ik} + 1 = \boldsymbol{l_s} [illegible] + j_{sa}^{ik} - j_{sa} [illegible] + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D [illegible] s - \boldsymbol{n} < [illegible] \leq D + [illegible] s - \boldsymbol{n} - 1 \wedge$

$D [illegible] < n \wedge I = \mathbb{k} [illegible] 0 \wedge$

$[illegible] \leq j_{sa}^{[illegible]} - 1 \wedge j_{sa}^{ik} = j_{s[illegible]} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, [illegible] j_{sa}^{i}\} \wedge$

$s [illegible] 4 \wedge [illegible] s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 [illegible]$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{\text{[illegible]}})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{i}\text{[illegible]}}-k-j_{sa}\text{[illegible]})}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\text{[illegible]}-\boldsymbol{l}_{\boldsymbol{sa}}-\text{[illegible]}}{(\text{[illegible]}+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\text{[illegible]}^{sa}-s)!}+$$

$$\sum_{k=\ _{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

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

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

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

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

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l}_{\boldsymbol{s}}+s-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{i}}} \sum_{(j_{ik}=\boldsymbol{l}_{\boldsymbol{i}}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l}_{\boldsymbol{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-\text{[illegible]}\right)!}$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-\text{[illegible]}^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}\ \text{[illegible]}\ \boldsymbol{_{ik}}\land\boldsymbol{l_i}+\text{[illegible]}-s>\boldsymbol{l}\text{[illegible]}\land$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1\ \text{[illegible]}$

$D\geq\boldsymbol{n}<n\land I=\mathbb{k}\geq 0\land$

$j_{sa}\leq j_{sa}^{i}-1\land j_{sa}^{ik}=j_{sa}-\text{[illegible]}\land j_{sa}^{s}\leq j_{sa}^{\text{[illegible]}}\ \text{[illegible]}\ 1\land$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\ \text{[illegible]}$

$s\geq 4\land\boldsymbol{s}=s+\text{[illegible]}\land$

$\mathbb{k}\ \text{[illegible]}\cdot z=1\Rightarrow\text{[illegible]}$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\,)} \sum_{j^{sa}=j_{sa}}$$

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

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

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

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

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} -$$

$$\sum^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\,)}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \land$

$s \geq 4 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$$ {}_{fz}^{D}S_{j_{sa}}^{j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\quad\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\quad\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{(n_i-\ldots)}\quad\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=\ldots+j_{sa}^{s}-j_{sa}^{ik}}\quad\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-[illegible]\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-[illegible]-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-[illegible])!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot([illegible]+j_{sa}-[illegible]s)!}+$$

$$\sum_{k=[illegible]_{i}\boldsymbol{l}}^{[illegible]}\sum_{([illegible]=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=[illegible]-D-s}^{j_{sa}-[illegible]_{i}\boldsymbol{l}-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_s} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + 1 \wedge$

$\Bbbk : z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l}_i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_s^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!} \cdot $$

$$ \frac{(\boldsymbol{l_s}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_s}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!} \cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} + $$

$$ \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_i}+j_{sa}-k-s+1} $$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$ [illegible]

$$\sum_{k= \ _i\boldsymbol{l}} \ \sum_{(j_{ik}=j_{sa}^{ik} \ldots)}^{(\ )} \ \sum_{\boldsymbol{l_i}+\boldsymbol{n}+j \ldots -D-s}^{\boldsymbol{l_i}+j_{sa} \ldots \boldsymbol{l}-s+1}$$ [illegible]

$$\sum_{n_i=\boldsymbol{n}+ \ldots}^{n} \ \sum_{\ldots \Bbbk - j_{ik}+1)}^{(n_i - j \ldots +1)} \ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik} \ldots -\Bbbk}$$ [illegible]

$$\frac{(n_i - n_{ik} \ldots)!}{(\ldots_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$ [illegible]

$$\frac{(\ldots - n_{sa} \ldots 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$ [illegible]

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

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \ \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\land$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n})\lor$

$(D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\land$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n})\big)\land$

$D\geq\boldsymbol{n}<n\land I=\mathbb{k}\geq 0\land$

$j_{sa}\leq j_{sa}^{i}-1\land j_{sa}^{ik}=j_{sa}-1\land j_s^s\leq j_{sa}^{ik}-1\land$

$\boldsymbol{s}:\left\{j_s^s,\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\land$

$s\geq 4\land\boldsymbol{s}=s+\mathbb{k}\land$

$\mathbb{k}_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\cdots+j_{sa}-k-j_{sa}^{ik}+\cdots}^{\cdots k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

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

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

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - [illegible])!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} - [illegible]_{sa})!}{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - j^{sa} - \boldsymbol{l_{ik}})! \cdot ([illegible]^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} [illegible])!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! [illegible] \boldsymbol{n} + j_{sa} - [illegible] s)!} -$$

$$\sum_{[illegible]1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=[illegible] j^{ik}_{sa} - j_{sa})}^{(\ )} \sum_{[illegible]+1}^{[illegible]+j_{sa}-k-j^{ik}_{sa}+1}$$

$$\sum_{[illegible]=\boldsymbol{n}+\Bbbk}^{[illegible]} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}}^{[illegible]} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j^{ik}_{sa} - j_{ik} - k)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\}$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z \geq 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-[illegible]}$$

$$\sum_{k=[illegible]}\ \sum_{[illegible]j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{[illegible]_{sa}-\,{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+[illegible]}^{n}\ \sum_{[illegible]\Bbbk-j_{ik}+1)}^{(n_i-[illegible]+1)}\ \sum_{[illegible]=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-[illegible]-\Bbbk}$$

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

$$\frac{([illegible]-n_{sa}-1)!}{([illegible]-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\,_i\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ \ )}\ \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\land$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1)\lor$

$(D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\land$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)\land$

$D\geq\boldsymbol{n}<n\land I=\mathbb{k}\geq 0\land$

$j_{sa}^{ik}=j_{sa}-1\land j_{sa}^{ik}=j_{sa}-1\land j_{sa}^{s}\leq j_{sa}^{ik}-1\land$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\land$

$s\geq 4\land\boldsymbol{s}=s+\mathbb{k}\land$

$\mathbb{k}_z\colon z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \boldsymbol{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\mathbf{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \boldsymbol{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+j_{sa}-s-\mathbf{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\mathbf{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j^{i}_{sa}-1 \wedge j^{ik}_{sa}=j_{sa}-1 \wedge j_{sa}=j^{i}_{sa}-1 \wedge$

$\boldsymbol{s}:\{j^{s}_{sa},\cdots,j^{ik}_{sa},\Bbbk,j_{sa},\cdots,j^{i}_{sa}\}$

$s \geq 4 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z: z=1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} $$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-\text{[illegible]}\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{\text{[illegible]}}^{\text{[illegible]}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\quad)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-\text{[illegible]})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-\text{[illegible]})}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-\text{[illegible]}}^{\text{[illegible]}}$$

$$\sum_{\text{[illegible]}+\Bbbk}^{\text{[illegible]}}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(\text{[illegible]}-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{s}^{s}\text{[illegible]}j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(\text{[illegible]}+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n}$ [illegible] $n \wedge \boldsymbol{l_s} \leq D -$ [illegible] $+ 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq$ [illegible] $+ j_{sa}^{ik} -$ [illegible] $\wedge$

j_{ik} [illegible] $+ j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} +$ [illegible] $> \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

[illegible] $- \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j^{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\cdots+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{\cdots}}\sum_{(n_{sa}=n_{ik}+j_{ik}-\cdots+\Bbbk)}^{(\ )}$$

$$\frac{(\cdots-s-I)!}{(\cdots-\boldsymbol{n}-\cdots)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\cdots-k-1)!}{(\boldsymbol{l_s}+j_{\cdots}-j_{ik}-\cdots)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+\cdots-\boldsymbol{n}-\boldsymbol{l_i}-j_{\cdots})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_i}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}-j_{\cdots}-\boldsymbol{n}-1\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk\geq\cdots\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{\cdots}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\mathbf{l_{ik}}-k-j_{sa}^{ik}\right)!}{\left(\mathbf{l_{ik}}-j_{ik}-k+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\mathbf{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l_{sa}})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\mathbf{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\mathbf{l_i}+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l_i}+j_{sa}-{}_{i}\mathbf{l}-s+1}$$

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

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

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

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

$$\frac{\left(\mathbf{l_{ik}}-{}_{i}\mathbf{l}-j_{sa}^{ik}\right)!}{\left(\mathbf{l_{ik}}-j_{ik}-{}_{i}\mathbf{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\mathbf{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l_{sa}})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\mathbf{l_s}+s-\mathbf{n}-\mathbf{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\mathbf{l_i}+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\dots)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+s+j_{sa}-\boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{i} \leq j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}=\{j_{sa}^{s},\cdots,j_{sa}^{i},j_{sa},\cdots,j_{sa}^{ik}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\Bbbk$

$\Bbbk_z: z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-\cdots\right)}^{\left(\boldsymbol{l_i}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-s+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1 \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

j_{sa} [illegible] $- 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j^{ik}_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-k+1\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=\,\cdots} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j^{ik}_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j^{ik}_{sa}+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j^{ik}_{sa}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-
$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j^{ik}_{sa}}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-1)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}-j_{ik}-k)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_{sa}})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_{ik}}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} = \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{ik}} \leq D+\boldsymbol{l_s}+j^{ik}_{sa}-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j^{i}_{sa}-1 \wedge j^{ik}_{sa} = j_{sa}-1 \wedge j^{s}_{sa} \leq j^{ik}_{sa}-1 \wedge$

$\boldsymbol{s}: \{j^{s}_{sa}, \cdots, j^{ik}_{sa}, \mathbb{k}, j_{sa}, \cdots, j^{i}_{sa}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s+\mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_i\boldsymbol{l}-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\ldots-j^{sa}-\mathbb{k})}^{(\ \ )}$$

$$\frac{(n_i-\ldots)!}{(n_i-\boldsymbol{n}-I)!\cdot(\ldots-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-\ldots)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}\ldots)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\ldots)!}{(D+j^{sa}+s-\boldsymbol{n}-\ldots-j_{sa})!\cdot(\ldots+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq \ldots+\boldsymbol{l_{ik}}+j_{sa}-\ldots j_{sa}^{ik} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k} $$

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

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

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

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

$$ \frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot $$

$$ \frac{(j^{sa}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_s}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+ $$

$$ \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1} $$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - \cdots)}$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik} \cdots)}^{(\ )} \sum_{j^{sa}=\cdots+\boldsymbol{n}-D}^{\cdots - {}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik}) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 1 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+\dots-D-j_{sa})}^{(\dots+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\dots-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ \ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$(D > \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{sa}}-j_{sa}+1>\boldsymbol{l_s}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$ [illegible] $+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{s}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1))$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}\geq$ [illegible] $\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge$ [illegible] $=j_{sa}-$ [illegible] $\wedge j_{sa}^{s}$ [illegible] $j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},$ [illegible] $,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq4\wedge\boldsymbol{s}=$ [illegible] $+\mathbb{k}\wedge$

$\mathbb{k}_z:$ [illegible] $\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l}[illegible]} \sum_{(j_{ik}=[illegible]\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+[illegible])} \sum_{j^{sa}=[illegible]k+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-[illegible]}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}+j_{ik}-{}_i\boldsymbol{l}-1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j^{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D > \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1\right)} \sum_{j^{sa}=\text{[illegible]}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}\text{[illegible]}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}\text{[illegible]}+1}^{n_{ik}+\text{[illegible]}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - \text{[illegible]} - 1)!}{(\text{[illegible]})! \cdot (n_i - \text{[illegible]} - j_{ik} + 1)!} \cdot$$

$$\frac{(n\text{[illegible]} - n_{sa} - \text{[illegible]})}{(j^{sa} - j\text{[illegible]} - 1)! \cdot (\text{[illegible]} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa}\text{[illegible]}1)!}{(n_{sa} + j\text{[illegible]} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\text{[illegible]} - {}_i\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(\text{[illegible]} + \boldsymbol{l}\text{[illegible]} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\text{[illegible]}}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{\boldsymbol{l_{sa}}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s \dots)}$$

$$\sum_{n_{ik}=\dots+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(\dots=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_{sa} - s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - s < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D > \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

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

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

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

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

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa}\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

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

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

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

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

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)}\ \sum_{j^{sa}=[illegible]}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=[illegible]+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} > D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{sa}}-j_{sa}+1 > \boldsymbol{l_s} \wedge$

$\boldsymbol{l_{sa}} > D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik})\big)$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa} \leq j_{sa}^{ik}-1$

$\boldsymbol{s}:\left\{j_{sa}^{s},\ldots,j_{sa}^{ik},\Bbbk,j_{sa},\ldots,j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s+\Bbbk \wedge$

$\Bbbk_z: \Bbbk = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}_i-1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\text{[illegible]})}^{\text{[illegible]}}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\text{[illegible]}-\text{[illegible]}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}}) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = 0$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\quad\sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-\ldots)}\quad\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-\ldots}^{\ldots\boldsymbol{l_s}+j_{sa}-k}\right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\quad\sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\quad\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}\ldots-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{\ldots-\boldsymbol{n}+1} \sum_{(j_{ik}=\ldots+\boldsymbol{n}+j_{sa}^{ik}-D\ldots)}^{(\boldsymbol{l_s}\ldots^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\ldots+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible])}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot([illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]-j_{sa})!\cdot(\boldsymbol{n}[illegible]j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s$ [illegible]

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-$ [illegible] $\boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$ [illegible]

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge$ [illegible] $\leq j_{sa}^{ik}-1$ [illegible]

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,$ [illegible] $,\cdots,j_{sa}^{i}\} \wedge$

[illegible] $5 \wedge \boldsymbol{s}=$ [illegible] $\Bbbk \wedge$

$\Bbbk_z$ [illegible] $=1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right)$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-k+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}\text{[illegible]}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{\text{[illegible]}-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\text{[illegible]}+\boldsymbol{n}+j_{sa}^{ik}-\text{[illegible]})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\text{[illegible]}+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\dots)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot(\dots-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa}+1 \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} = \boldsymbol{l_{ik}}\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa}+1 \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} > \boldsymbol{l_{ik}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j^{i}_{sa}-1 \wedge j^{ik}_{sa} < j_{s\dots}-1 \wedge j^{s}_{sa} \leq j^{ik}_{sa}-1 \wedge$

$\boldsymbol{s}:\left\{j^{s}_{sa},\cdots,j^{ik}_{sa},\cdots,j_{sa},\cdots,j^{i}_{sa}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s+\Bbbk \wedge$

$\dots z = \dots$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\left.\frac{(D+\text{[illegible]}-\boldsymbol{l_{sa}}\text{[illegible]})!}{(D\text{[illegible]}j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\sum_{k=1}^{\text{[illegible]}+\boldsymbol{l_{ik}}\text{[illegible]}\boldsymbol{n}-\boldsymbol{l_{sa}}-\text{[illegible]}+1} \left(\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+\text{[illegible]}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{\ldots D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_{is}=\boldsymbol{n}+\Bbbk}\;\sum_{(n_{sa}=n_{is}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{sa}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{s}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\big)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}})\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot \frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +
$$

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\cdots\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}\cdots-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\cdots j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\cdots+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}\cdots1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

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

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

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

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

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

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

$$\frac{(\boldsymbol{l_i}-[illegible]-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+[illegible])!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D-j_{sa}-\boldsymbol{l_s}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_s})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{[illegible]}^{D+\boldsymbol{l_s}+[illegible]-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq \boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D\geq \boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge \boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}-D-1}^{\boldsymbol{l_s}+j_{sa}-1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$f_{z,j_{ik},j^{sa}}^{sDOSD} = \sum_{\ldots 1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\ldots}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\ldots-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i \ldots)!}{(\ldots-\boldsymbol{n}-I)!\cdot(\ldots s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k \ldots)!}{(\boldsymbol{l_s}+j_{sa}^{\ldots}\ldots j_{ik}\ldots)!\cdot(j_{i\ldots}\ldots j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\ldots)!}{(D+j^{sa}+s-\boldsymbol{n}-\ldots-j_{sa})!\cdot(\ldots+j_{sa}-j^{sa}-s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j\ldots$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n}+\ldots_{a}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l}\ldots \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\ldots=\boldsymbol{l_{ik}} \wedge \boldsymbol{l}\ldots j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D \ge \ldots < n \wedge I=\Bbbk \ldots 0 \wedge$

$j_{sa}\ldots \le j_{sa}^{i}-1 \wedge \ldots^{ik} < j_{sa} \ldots 1 \wedge j_{sa}^{s} \ldots_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j\ldots,\cdots,j_{sa}^{ik},\cdots,\Bbbk,j\ldots\cdots,j_{sa}^{i}\}$

$s \ge 5 \wedge \boldsymbol{s} \ldots s+\Bbbk \wedge$

$\Bbbk_z: z \ldots 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

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

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

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

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

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-\dots}^{\dots+j_{sa}-\dots}$$

$$\sum_{\dots=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(\dots-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{s}^{s}\dots j_{sa}^{ik}}\ \sum_{\left(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}\right)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n}$ [illegible] $n \wedge \boldsymbol{l_s} > D -$ [illegible] $+ 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik}$ [illegible] $j^{sa} +$ [illegible] $- j_{sa} \wedge$

j_{ik} [illegible] j_{sa} [illegible] $j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} +$ [illegible] $> \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

D [illegible] $< n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_i}+j^{ik}_{sa}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

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

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

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

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

$$
\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$
\sum_{k=1}^{D+j^{sa}-j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

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

$$
\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$
\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j^{ik}_{sa} - j_{ik} - k)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}
$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}
$$

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

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

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

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\text{[illegible]})!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}$$

$$\frac{(\boldsymbol{l_i}\text{[illegible]}-k-j_{sa}\text{[illegible]})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\text{[illegible]}\boldsymbol{l_{ik}}-j_{sa}\text{[illegible]})!}{(j_{ik}+\text{[illegible]}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l_{ik}}\text{[illegible]})!\cdot(j^{sa}\text{[illegible]}-j_{sa})!}\cdot$$

$$\frac{(\text{[illegible]}+j_{sa}-\text{[illegible]}-s)!}{(\text{[illegible]}+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}_{sa}-j^{sa}-s)!}-$$

$$\sum_{k\text{[illegible]}}^{D+\boldsymbol{l_s}+j_{sa}\text{[illegible]}\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}\text{[illegible]}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-\ldots\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-\ldots-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-\ldots)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\ldots+j_{sa}-j^{\ldots}\ldots s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\ldots j_{sa}^{ik}-D-s\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{\ldots a-j_{sa}^{ik}}$$

$$\sum_{\ldots=\boldsymbol{n}+\Bbbk}^{\ldots}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \ldots < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{sa} \ldots j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-} \sum_{(j_{ik}=j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik}+1 \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\Big) \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \le j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \le j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \ge 5 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z\colon z=1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}\ \sum_{j^{sa}=[illegible]+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\text{[illegible]})!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}$$

$$\frac{(\boldsymbol{l_i}\text{[illegible]}-k-j_{sa})\text{[illegible]}}{(\boldsymbol{l_{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\text{[illegible]}\boldsymbol{l_{ik}}-j_{sa}\text{[illegible]}}{(j_{ik}+\text{[illegible]}\boldsymbol{_{sa}}\text{[illegible]}j^{sa}-\boldsymbol{l_{ik}}\text{[illegible]}\cdot(j^{sa}\text{[illegible]}-j_{sa})!}\cdot$$

$$\frac{(\text{[illegible]}+j_{sa}-\text{[illegible]}-s)!}{(\text{[illegible]}+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}_{a}-j^{sa}-s)!}-$$

$$\sum^{D+\boldsymbol{l_s}+\text{[illegible]}\boldsymbol{n}-\boldsymbol{l_i}}_{\text{[illegible]}1}\ \sum^{(\boldsymbol{l_{ik}}-\text{[illegible]}1)}_{(\text{[illegible]}+j_{sa}^{ik}-D-s)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ \ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$${}_{sz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=n_i+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{s}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k})}^{(\ )}$$

$$\frac{(D-s-I)!}{(D-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$
\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}
$$

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$
\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot
$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}$ [illegible] $s = \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1$ [illegible] $-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,$ [illegible] $\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s+\Bbbk \wedge$

$\Bbbk_z: z$ [illegible] $1 \Rightarrow$

$$[illegible]\,j_{sa} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-\text{[illegible]}}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}\text{[illegible]}-j_{ik})}^{(n_i\text{[illegible]}+1)}$$

$$\sum_{n_{ik}=n\text{[illegible]}j_{sa}^{s}-j\text{[illegible]}} \sum_{\text{[illegible]}=n_i\text{[illegible]}k-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - \text{[illegible]})!}{(n_i\text{[illegible]}\boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\text{[illegible]}_s - k - 1)!}{(\text{[illegible]} + j_{sa}^{ik} - j\text{[illegible]} - k)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(\text{[illegible]} - \boldsymbol{l_i})!}{(D + j^{sa} + \text{[illegible]} - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\Big((D \geq \boldsymbol{n} < n \land \text{[illegible]} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j\text{[illegible]} \leq j^{sa} + \text{[illegible]} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq \text{[illegible]} \leq \boldsymbol{n} + \text{[illegible]} - \text{[illegible]}$

$\boldsymbol{l_{ik}} - \text{[illegible]} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_s}\text{[illegible]} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < \text{[illegible]} \boldsymbol{l_s} > D - \text{[illegible]} + 1 \land$

$j_{sa}^{ik} \text{[illegible]} j_{ik} \leq j\text{[illegible]} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - \text{[illegible]} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} \text{[illegible]} j_{sa} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}})\Big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\ldots-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}\ldots}
$$

$$
\frac{(n_i \ldots - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} \ldots + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} \ldots 1)!}{(j^{sa} - j_{ik} - 1)! \ldots + j_{ik} - \ldots - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} \ldots)!}{(\ldots_{sa} + j^{\ldots} \ldots \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k \ldots j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - \ldots + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j\ldots - \boldsymbol{l_{sa}} - s)!}{(D \ldots j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$
\sum_{\ldots=1}^{D+\boldsymbol{l_s}+s-\ldots-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
$$

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$
\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}
$$

$$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}\big) \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$$

$$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 1 \Rightarrow$$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l}_{\boldsymbol{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l}_{\boldsymbol{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l}_{\boldsymbol{i}}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l}_{\boldsymbol{s}}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{i}}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l}_{\boldsymbol{s}}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{s}}-k-1)!}{(\boldsymbol{l}_{\boldsymbol{s}}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z: z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DO\text{[illegible]}} = \sum_{k=1}^{D-\text{[illegible]}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq j_{sa}^{i}-1 \land j_{sa}^{ik} < j_{sa}-1 \land j_{sa}^{s} \leq j_{sa}^{ik}-1 \land$

$\mathbb{k}: \left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \land$

$s \geq 5 \land \boldsymbol{s}=s+\mathbb{k} \land$

$\mathbb{k}_z: z=1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}}=\sum_{k=1}^{D-\boldsymbol{n}+1}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\;\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=[illegible]-j_{ik})}^{(n_i [illegible] +1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{()}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{([illegible] - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}\ldots}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}\ldots-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(\ldots-1)!}{(n_{\ldots}+j^{sa}-\boldsymbol{n}\ldots 1)!\cdot(\boldsymbol{n}-j^{s\ldots})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}\ldots j_{sa}^{ik}\ldots)!}{(\boldsymbol{l}\ldots-j_{ik}-\ldots+1)!\cdot(j_{ik}\ldots_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+\ldots^{ik}-\boldsymbol{l_{ik}}\ldots_{a})!}{(j_{ik}+\ldots-j^{sa}-\boldsymbol{l_{ik}}\ldots)\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{s}\ldots\boldsymbol{l_{sa}}-s)!}{(D\ldots j^{sa}-\ldots_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{[illegible]}^{D+\boldsymbol{l_s}+s\ldots-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD[illegible]} \sum_{[illegible]}^{i\boldsymbol{l}-[illegible]} \sum_{(j_{ik}=j_{sa}+1)}^{[illegible]^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n[illegible]j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_{\boldsymbol{s}}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{s}}+j_{sa}-k+1}^{\boldsymbol{l}_{\boldsymbol{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l}_{\boldsymbol{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_s} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} < j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+\boldsymbol{l_{sa}}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot $$

$$ \frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-[illegible])!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-[illegible]-s)!}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}[illegible])}^{(\boldsymbol{l_s}+j_{sa}^{ik}-[illegible])}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{s}[illegible]}^{[illegible]}$$

$$\sum_{n_{i}[illegible]+\mathbb{k}}^{[illegible]}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{[illegible]-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{s}[illegible]j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D[illegible]j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-s-\ \mathbb{k})!}{(n_i-\boldsymbol{n}-\ \mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$${}_{fz}S_{j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{( )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}\dots)}\sum_{j^{sa}=j_{sa}+2}^{\dots+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\dots)}^{(\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(\dots-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-\dots)!\cdot(\boldsymbol{n}+\dots-j^{sa}-s)!}\cdot$$

$$\sum_{\dots I} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\dots\Bbbk}^{n} \sum_{(n_{ik}=\dots ik+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \dots D-\boldsymbol{n} \dots \wedge$

$j_{sa}^{ik} \leq \dots \leq j^{sa}+j_{sa}^{ik} \dots {}_{sa}-1 \wedge$

$j_{ik}+j_{sa}-\dots+1 \leq j^{s\dots} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}} \dots +1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D+\dots-\boldsymbol{n} \wedge$

[illegible] $\wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s+\Bbbk \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} \right) +
$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\;\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\;\sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_s}+j_{sa}-k}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\;\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\;\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik} \text{[illegible]})}^{(\;)} \sum_{j^{sa}=j_{sa}+1 \text{[illegible]}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1 \text{[illegible]}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n} \text{[illegible]} - j_{ik}+1)}^{(n_i - j_{ik}+1)} \sum_{\text{[illegible]}+1}^{n_{ik}+\text{[illegible]}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i \text{[illegible]}_{ik} - 1)!}{(\text{[illegible]} 2)! \cdot (n_i - \text{[illegible]} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - \text{[illegible]} - \mathbb{k} \text{[illegible]})!}{(\text{[illegible]}^{sa} - j_{ik} - \text{[illegible]})! \cdot (n_{ik} \text{[illegible]}_{ik} - n_{sa} - \text{[illegible]}^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} \text{[illegible]} 1)!}{(n_{sa} + \text{[illegible]} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} \text{[illegible]} j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + \text{[illegible]} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{\text{[illegible]}} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\;)}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_{sa}}\leq D+j_{sa}-\boldsymbol{n}\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s>5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)+$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}-k-j_{sa}^{ik})!}{(\boldsymbol{l}_{ik}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k={}_i\boldsymbol{l}\,[illegible]}^{[illegible]}\ \sum_{[illegible]\,j_{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{[illegible]_{sa}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+[illegible]}^{n}\ \sum_{[illegible]\Bbbk-j_{ik}+1)}^{(n_i-[illegible]+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-[illegible]-\Bbbk}$$

$$\frac{(n_i-n_{ik}\,[illegible])!}{([illegible]_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}+[illegible]-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_{ik}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\ \sum_{j^{sa}=j_{sa}\ldots}$$ [illegible]

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}\ldots}^{\ldots j_{ik}-j^{sa}-\Bbbk}$$ [illegible]

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\ldots)!}{(D\ldots s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$ [illegible]

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq$ [illegible] $+\, j_{sa} -$ [illegible]

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{s}$ [illegible] $-\, j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D+j_{sa}-$ [illegible] $\wedge$

$D \geq \boldsymbol{n} < n$ [illegible] $I = \Bbbk >$ [illegible] $\wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge$ [illegible] $< j_{sa} -$ [illegible] $\wedge\, j_{sa}^{s}$ [illegible] $j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}$ [illegible] $, j_{sa}^{ik}, \cdots, \Bbbk, j_{s}$ [illegible] $\cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}$ [illegible] $+\,\Bbbk \wedge$

$\Bbbk_z$: [illegible] $\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=[illegible]} \sum_{[illegible]} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\boldsymbol{n}} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!}\right) +$$

$$\left(\sum_{k=1}^{\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\boldsymbol{n}} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - \text{[illegible]}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - \text{[illegible]} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} \text{[illegible]})!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\text{[illegible]} + j_{sa} - j \text{[illegible]} s)!} +$$

$$\sum_{k=\,_{i}\boldsymbol{l}}^{\text{[illegible]}} \sum_{(j_{ik} = j_{s} \text{[illegible]})}^{\text{[illegible]})} \sum_{\text{[illegible]} j_{sa}+1}^{\boldsymbol{l_{sa}} - \,_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{ik} = \text{[illegible]} \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} \text{[illegible]})} \sum_{n_{sa} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{\text{[illegible]}(n_i - n_{ik} - 1)!}{(j_{ik} \text{[illegible]} 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \text{[illegible]} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik} = j_{sa}^{ik} + 1\right)}^{\left(\boldsymbol{l_s} + j_{sa}^{ik} - k\right)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{\left(n_{is} = \boldsymbol{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}\right)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=\ldots}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}\sum_{n_{ik}=n_i-j_{ik}}^{(\;)}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \ge \boldsymbol{n} < n \land \boldsymbol{l_s} \le D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik} \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa}-1 \land$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \land \boldsymbol{l_s}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \land$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \le D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \land$

$D \ge \boldsymbol{n} < n \land I = 0 \land$

$j_{sa} \le j_{sa}^{i}-1 \land j_{sa}^{ik} < j_{sa}-1 \land j_{sa}^{s} \le j_{sa}^{ik}-1 \land$

$I \in \{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\} \land$

$s \ge 5 \land \boldsymbol{s}=s+\Bbbk \land$

$\Bbbk_z: z=1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \right.
$$

$$
\sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$\frac{\left(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l}_{\boldsymbol{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l}_{\boldsymbol{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l}_{\boldsymbol{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l}_{\boldsymbol{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l}_{\boldsymbol{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l}_{\boldsymbol{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l}_{\boldsymbol{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-[illegible]\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-[illegible]-s)!}\cdot$$

$$\sum_{k=\ _i\boldsymbol{l}}\ \sum_{(j_{ik}[illegible])}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-[illegible]}^{[illegible]+1}$$

$$\sum_{n_i=[illegible]}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+[illegible]j_{ik}+1)}^{(n_i[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{[illegible]j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-[illegible]-1)!}{(j_{ik}-[illegible])!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-[illegible]-\mathbb{k}-1)!}{(j^{sa}[illegible]j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1}\ \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1}\ \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)}\ \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}\ldots 1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}\ldots)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-\ldots}^{\boldsymbol{l_{sa}}\ldots+1}$$

$$\sum_{n_i=\ldots}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\ldots j_{ik}+1)}^{(n_i\ldots 1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{\ldots j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-\ldots-1)!}{(j_{ik}-\ldots)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-\ldots-\mathbb{k}-1)!}{(j^{sa}\ldots j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\ {}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-\ {}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \text{[illegible]})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \text{[illegible]}_{a}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (\text{[illegible]}^{a} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - \text{[illegible]})!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\text{[illegible]} + j_{sa} - j^{\text{[illegible]}})!}\Bigg) -$$

$$\sum_{\text{[illegible]}=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{s\text{[illegible]}}\text{[illegible]}^{ik}-j_{sa})}^{(\ )} \sum_{\text{[illegible]}_{a}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{\text{[illegible]}=\boldsymbol{n}+\Bbbk}^{\text{[illegible]}} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}^{\text{[illegible]}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \text{[illegible]} < n \wedge \boldsymbol{l_s} \leq \text{[illegible]} - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq \text{[illegible]}^{a} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$\text{[illegible]} + j_{\text{[illegible]}}\ \text{[illegible]}_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{[illegible]} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j^{sa})!} \cdot \frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})! \cdot (\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) + $$

$$ \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \right. $$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\text{[illegible]}\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}\text{[illegible]}-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\text{[illegible]}j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\text{[illegible]}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}\text{[illegible]})} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\text{[illegible]})!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{i}\text{[illegible]}}-k-j_{sa})!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}\text{[illegible]}-j_{sa})!}{(j_{ik}+\text{[illegible]}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}}\text{[illegible]})!\cdot(j^{sa}\text{[illegible]}-j_{sa})!}\cdot$$

$$\frac{(\text{[illegible]}+j_{sa}-\text{[illegible]}-s)!}{(D+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\ {}_{i}\boldsymbol{l}}^{\text{[illegible]}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l}_{\boldsymbol{sa}}-\ {}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-[illegible])}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - [illegible] s - [illegible])!}{([illegible] - \boldsymbol{n} - I)! \cdot ([illegible] - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k [illegible] 1)!}{(\boldsymbol{l_s} + j_{sa} [illegible] j_{ik} [illegible] k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - [illegible])!}{(D + j^{sa} + s - \boldsymbol{n} - [illegible] - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1$ [illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa}$ [illegible] $\boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} -$ [illegible] $> \boldsymbol{l_{ik}} \wedge$

$D +$ [illegible] $- \boldsymbol{n} < \boldsymbol{l_{sa}}$ [illegible] $D + \boldsymbol{l_{ik}} + j_{sa} -$ [illegible] $\wedge$

D [illegible] $\boldsymbol{n} < n \wedge$ [illegible] $\mathbb{k} > 0$ [illegible]

j_{sa} [illegible] $j_{sa}^{i} - 1 \wedge j_{sa}^{ik}$ [illegible] $- 1$ [illegible] $\leq j_{sa}^{ik} - 1 \wedge$

[illegible] $\{j_{sa}^{s}, \cdots$ [illegible] $, \cdots, \mathbb{k}, j_{sa},$ [illegible] $, j_{sa}^{i}\} \wedge$

$s \geq 5$ [illegible] $\boldsymbol{s} = s$ [illegible]

$\mathbb{k}_z : z = 1$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\text{[illegible]}+\boldsymbol{n}+j_{sa}^{ik}-\text{[illegible]}-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa})}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+2}^{l-1}\ \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j^{sa}-n-l_{sa})!\cdot(n+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_il}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-{}_il+1}$$

$$\sum_{n_i=n+\Bbbk}^{n}\ \sum_{(n_{ik}=n+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(n_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)!\cdot(n-j^{sa})!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(l_{sa}+j_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j^{sa}-n-l_{sa})!\cdot(n+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D-l_s+s-n-l_i}\ \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\Bbbk}^{n}\ \sum_{(n_{is}=n+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-n-I)!\cdot(n-s)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \leq D+j_{sa}^{ik}-\boldsymbol{n} \wedge \boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s+\mathbb{k} \wedge$

$\mathbb{k}_z\colon z=1 \Rightarrow$

$${}_{fz}S_{j_{ik}, [illegible]}^{[illegible]D} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\text{[illegible]})!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}$$

$$\frac{\left(\boldsymbol{l_{ik}}\text{[illegible]}{}_{i}\boldsymbol{l}-j_{sa}^{\text{[illegible]}}\right)}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+\text{[illegible]}\right)!\cdot\left(j_{ik}-j_{sa}^{ik}\text{[illegible]}\right)!}\cdot$$

$$\frac{(D\text{[illegible]}\boldsymbol{l_{sa}}-s)\text{[illegible]}}{(D\text{[illegible]}j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}-s)!}-$$

$$\sum_{k=1}^{\text{[illegible]}l-1}\;\sum_{(\text{[illegible]}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\text{[illegible]})}\;\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\;\sum_{(j_{ik}=j_{sa}^{ik})}^{(\;\;)}\;\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;\;)}\;\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \leq D + j_{sa}^{ik} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} \sum_{k=1}^{\boldsymbol{l}_i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{([illegible]-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-j_{sa}+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{s\text{[illegible]}}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}\text{[illegible]}j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}\text{[illegible]}1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}\text{[illegible]}-\mathbb{k})!}\cdot$$

$$\frac{(\text{[illegible]}-1)!}{(\text{[illegible]}j^{sa}-\boldsymbol{n}\text{[illegible]})!\cdot(\boldsymbol{n}-j^{sa}\text{[illegible]})}\cdot$$

$$\frac{(\text{[illegible]}-{}_{i}\boldsymbol{l}\text{[illegible]})}{(\boldsymbol{l_{ik}}\text{[illegible]}-{}_{i}\boldsymbol{l}\text{[illegible]}1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(\text{[illegible]}D+j_{sa}\text{[illegible]}\boldsymbol{l_{sa}}-s)!}{(D+j_{s}\text{[illegible]}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\text{[illegible]}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\,_{i}\mathbf{l}} \; \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \; \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{n} \; \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \; \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - \mathbf{l_i})!}{(D + s - \mathbf{n} - \mathbf{l_i})! \cdot (\mathbf{n} - s)!}$$

$\big((D \geq \mathbf{n} < n \wedge \mathbf{l_s} \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l_{ik}} - j_{sa}^{ik} + 1 > \mathbf{l_s} \wedge \mathbf{l_{sa}} + j_{sa}^{ik} - j_{sa} > \mathbf{l_{ik}} \wedge$

$\mathbf{l_i} \leq D + s - \mathbf{n}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l_s} \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l_{sa}} - j_{sa} + 1 > \mathbf{l_s} \wedge$

$\mathbf{l_{sa}} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l_i} \leq D + s - \mathbf{n})\big) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa}^{i} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\mathbf{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$

[illegible] $z = 1$ [illegible]

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{_{i}\mathbf{l}-1} \; \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \; \sum_{j^{sa}=j_{sa}+1}^{\mathbf{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\text{[illegible]}(j_{ik}-j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k\,\text{[illegible]})} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\mathbf{l}}^{(\mathbf{l_{ik}}-{}_i\mathbf{l}+1)} \sum_{(j_{ik}=j_{sa}^{ik})}^{\mathbf{l_{sa}}-{}_i\mathbf{l}+1} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\mathbf{l_{ik}}-{}_i\mathbf{l}-j_{sa}^{ik})!}{(\mathbf{l_{ik}}-j_{ik}-{}_i\mathbf{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\mathbf{l_{sa}}+j_{ik}-\mathbf{l_{ik}}-j_{sa})!}{(j_{ik}+\mathbf{l_{sa}}-j^{sa}-\mathbf{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\mathbf{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l_{sa}})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\mathbf{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\mathbf{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{is}=\mathbf{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\mathbf{n}-I)!\cdot(\mathbf{n}-s)!}\cdot$$

$$\frac{(\mathbf{l_s}-k-1)!}{(\mathbf{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\mathbf{l_i})!}{(D+j^{sa}+s-\mathbf{n}-\mathbf{l_i}-j_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa} [illegible]}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\mathbf{n}-\Bbbk)!\cdot(\mathbf{n}-s)!}\cdot$$

$$\frac{(D-\mathbf{l_i})!}{(D+s-\mathbf{n}-\mathbf{l_i})!\cdot(\mathbf{n}-s)!}$$

$\big((D \ge \mathbf{n} < n \wedge \mathbf{l_s} \le D-\mathbf{n}+1 \wedge$

$j_{sa}^{ik} \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \mathbf{n}+j_{sa}-s \wedge$

$\mathbf{l_{ik}}-j_{sa}^{ik}+1 > \mathbf{l_s} \wedge \mathbf{l_{sa}}+j_{sa}^{ik}-j_{sa} > \mathbf{l_{ik}} \wedge$

$\mathbf{l_i} \le D+s-\mathbf{n}) \vee$

$(D \ge \mathbf{n} < n \wedge \mathbf{l_s} \le D-\mathbf{n}+1 \wedge$

$j_{sa}^{ik} \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \mathbf{n}+j_{sa}-s \wedge$

$\mathbf{l_{sa}}-$ [illegible] $+1 > \mathbf{l_s} \wedge$ [illegible]

$\mathbf{l_{sa}} \le D+j_{sa}-\mathbf{n} \wedge \mathbf{l_i} \le D+s-\mathbf{n})\big) \wedge$

$D \ge \mathbf{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \le j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}^{i}-1 \wedge j_{sa}^{s} \le j_{sa}^{ik}-1 \wedge$

$\mathbf{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \ge 5 \wedge \mathbf{s} = s+\Bbbk \wedge$

[illegible] $z = 1$ [illegible]

$${}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge I\leq D+j_{sa}-\boldsymbol{n}\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right. $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)+$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(k+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+k-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{\left(j_{ik} = j_{sa}^{ik}\right)}^{\left(j^{sa} + j_{sa}^{ik} - j_{sa} - 1\right)} \sum_{j^{sa} = j_{sa} + 1}^{\boldsymbol{l_{ik}} + j_{sa} - {}_i\boldsymbol{l} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{\left(j_{ik} = j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} + 1\right)} \sum_{j^{sa} = \boldsymbol{l_{ik}} + j_{sa} - {}_i\boldsymbol{l} - j_{sa}^{ik} + 2}^{\boldsymbol{l_{sa}} - {}_i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-\ldots\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-\ldots-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\ldots+j_{sa}-j^{sa}-\ldots)!}\right)-$$

$$\sum_{k=1}\;\sum_{(\ldots=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)}\;\sum_{\ldots=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{\ldots=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\;\sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)}\;\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)}\;\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \Rightarrow$

$$f_{Z[illegible],j^{sa}}^{[illegible]DOSD} = \left(\sum_{k=1}^{[illegible]1} \sum_{(j_{[illegible]}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-[illegible])} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{([illegible]-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \quad \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \quad \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \quad \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \quad \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \quad \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \quad \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \quad \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \quad \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ _{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D\text{[illegible]}}^{\text{[illegible]}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\text{[illegible]}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\text{[illegible]}j_{ik}+1)}^{(n_i\text{[illegible]})}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n\text{[illegible]}j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-\text{[illegible]}-1)!}{(j_{ik}-\text{[illegible]}\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D-\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\boldsymbol{n}}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(\text{[illegible]}+j_{sa}-\text{[illegible]}-s)!}{(D+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}-\text{[illegible]}j_{sa}-j^{sa}-s)!}+$$

$$\sum_{\text{[illegible]}={}_{i}\boldsymbol{l}}^{\text{[illegible]}} \sum_{(j_{ik}-\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+\text{[illegible]}} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}\text{[illegible]}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-\text{[illegible]}}\sum_{(n_{sa}=n_{ik}+j_{ik}\text{[illegible]}\mathbb{k})}^{(\ )}$$

$$\frac{(\text{[illegible]}-s-I)!}{\text{[illegible]}\boldsymbol{n}-\text{[illegible]}!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\text{[illegible]}-k-1)!}{(\boldsymbol{l_s}+\text{[illegible]}-j_{ik}-\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D\text{[illegible]}\boldsymbol{l_i})!}{(D+j^{sa}+\text{[illegible]}\boldsymbol{n}-\boldsymbol{l_i}-j\text{[illegible]})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n}$ [illegible] $\wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} -$ [illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} +$ [illegible] $j^{sa} \leq \boldsymbol{n} + j_{sa}$ [illegible] $s \wedge$

$\boldsymbol{l}$ [illegible] $- j_{sa}^{ik} + 1$ [illegible] $\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}$ [illegible] $j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}}$ [illegible] $D + \boldsymbol{l_{ik}}$ [illegible] $- \boldsymbol{n} - j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n}$ [illegible] $n \wedge I = \mathbb{k} >$ [illegible] $\wedge$

$j_{sa} \leq j_{sa}^{i} -$ [illegible] $j_{sa}^{ik} <$ [illegible] $- 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}$: [illegible] $j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}$ [illegible] $s + \mathbb{k} \wedge$

$\mathbb{k}_z$: [illegible] $1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}\text{[illegible]}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}\text{[illegible]}j_{ik}+1)\text{[illegible]}}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}\text{[illegible]}-j\text{[illegible]}-\mathbb{k})!}\cdot$$

$$\frac{(\text{[illegible]}-1)!}{(n\text{[illegible]}+j^{sa}-\boldsymbol{n}\text{[illegible]}1)!\cdot(\boldsymbol{n}-j^{s}\text{[illegible]}}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}\text{[illegible]}j_{sa}^{ik}\text{[illegible]}}{(\text{[illegible]}-j_{ik}-\text{[illegible]}+1)!\cdot(j_{ik}\text{[illegible]}-1)!}\cdot$$

$$\left.\frac{(D+\text{[illegible]}-\boldsymbol{l_{sa}}\text{[illegible]}s)!}{(D\text{[illegible]}j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}\text{[illegible]}(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\sum_{k=1}^{(\text{[illegible]}\boldsymbol{n}-\boldsymbol{l_{sa}}-j\text{[illegible]}1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+\text{[illegible]}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1\right)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-\ldots)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-\ldots-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)\ldots}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\ldots+j_{sa}-j^{sa}-\ldots)!}\Bigg)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=\boldsymbol{l_i}+\ldots-D-s)}^{(\ldots+j_{sa}^{ik}-k)}\sum_{j^{sa}=\ldots}^{\ldots}\ldots-j_{sa}^{ik}$$

$$\sum_{\ldots=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \ldots \boldsymbol{n} \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq \ldots^{a}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik} \ldots -j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k}>0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}\ldots+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{s}\ldots}\sum_{(n_{sa}=n_{ik}+j_{ik}-\ldots\mathbb{k})}^{(\ )}$$

$$\frac{(\ldots-s-I)!}{(\ldots\boldsymbol{n}-\ldots)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\ldots-k-1)!}{(\boldsymbol{l_s}+j\ldots-j_{ik}-\ldots)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\ldots)!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\ldots\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j\ldots<j\ldots\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa}\wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_{z}: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}\ldots j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l}_{sa}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l}_{ik} - k - j_{sa}^{ik})!}{(\boldsymbol{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l}_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-\cdots}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\cdots\Bbbk+j^{sa}-j_{ik})}^{(n_i-\cdots+1)}$$

$$\sum_{n_{ik}=\cdots+j_{sa}\cdots}\sum_{(n_{sa}=n_{ik}\cdots j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s\cdots)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+\cdots-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\cdots j^{sa}\leq\boldsymbol{n}\cdots j_{sa}-s\cdots$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_i}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+\cdots\boldsymbol{n}\wedge$

$D\geq\cdots<n\wedge I\cdots0\wedge$

$j_{sa}\leq j_{sa}^{i}-\cdots\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\cdots\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z: z=1\Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} + j_{ik} - k - 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} - $$

$$ \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} $$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-I)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=I} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\ge\boldsymbol{n}<n\wedge\boldsymbol{l_s}\le D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\le j_{ik}\le j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\le j^{sa}\le\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\le D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa}\wedge$

$Z=k+I\wedge I=\Bbbk>0\wedge$

$j_{sa}\le j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\le j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\ge5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} -
$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\cdots)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\cdots-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i \cdots)!}{(\cdots-\boldsymbol{n}-I)!\cdot(\cdots s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k\cdots)!}{(\boldsymbol{l_s}+j_{sa}\cdots j_{ik}\cdots)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\cdots)!}{(D+j^{sa}+s-\boldsymbol{n}-\cdots-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} \cdots - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - \cdots = \boldsymbol{l_{ik}} \wedge \boldsymbol{l} \cdots j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq \cdots + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge \cdots \Bbbk > 0 \wedge$

$j_{sa} \cdots j_{sa}^{i} - 1 \wedge j_{sa}^{ik} \cdots - 1 \wedge \cdots \leq j_{sa}^{ik} - 1 \wedge$

$\cdots \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \cdots$

$\Bbbk_z : z = 1$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=[illegible]} \sum^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=[illegible]+\mathbb{k}-j_{ik}+1)}^{(n_i-[illegible]+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{([illegible])! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - [illegible] - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible])!}$$

$$\sum_{k=[illegible]} \sum_{(j_{ik}=j_{sa}^{ik}[illegible])}^{(\ )} \sum_{[illegible]=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{([illegible] n_i - j_{ik}+1)}^{(\ )} \sum_{n_{[illegible]}[illegible]_{ik}+j_{ik}-j^{sa}-\mathbb{k}[illegible]}$$

$$\frac{[illegible] s [illegible] \mathbb{k})!}{[illegible] - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{([illegible] + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$ [illegible]

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{s}$[illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa}$ [illegible] $s \wedge$

$\boldsymbol{l_{ik}} - [illegible]^{ik} + 1 = \boldsymbol{l_s}$ [illegible] $+ j_{sa}^{ik} - j_{sa}$ [illegible] $+ j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

D [illegible] $s - \boldsymbol{n} <$ [illegible] $\leq D +$ [illegible] $s - \boldsymbol{n} -$ [illegible] $\wedge$

D [illegible] $< n \wedge I = \mathbb{k}$ [illegible] $0 \wedge$

[illegible] $\leq j_{sa}$[illegible] $1 \wedge j_{sa}^{ik} < j_{s}$[illegible] $- 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik},$ [illegible] $\mathbb{k}$ [illegible] $\cdots, j_{sa}^{i}\} \wedge$

s [illegible] $5 \wedge$ [illegible] $s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1$[illegible]

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+\ldots)!\cdot(j_{ik}-j_{sa}^{ik}\ldots)!}\cdot$$

$$\frac{(\ldots-\boldsymbol{l_{sa}}-\ldots)!}{(\ldots+j^{sa}-\boldsymbol{n}-\ldots)!\cdot(\boldsymbol{n}\ldots-j^{sa}-s)!}+$$

$$\sum_{k=\ldots\boldsymbol{l}_i}^{\ldots} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_s}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+1\wedge$

$\Bbbk:z=1\Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l_i}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\ \sum_{j^{sa}=j_{sa}\ [illegible]}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=[illegible]}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz^{SD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}\ \sum_{(n_{sa}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa})}$$

$$\sum_{n_{ik}=\boldsymbol{n}+\Bbbk+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} < j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-\text{[illegible]}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-\text{[illegible]}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-\text{[illegible]})!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\text{[illegible]}+j_{sa}-\text{[illegible]}s)!}+$$

$$\sum_{k=\,_{i}\boldsymbol{l}\,\text{[illegible]}}^{\text{[illegible]}}\;\sum_{(\text{[illegible]}=j_{sa}^{ik})}^{(\;\;)}\;\sum_{j^{sa}=\text{[illegible]}-D-s}^{j_{sa}-\,_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\text{[illegible]}\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}\text{[illegible]})}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-\text{[illegible]}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\;\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - \text{[illegible]}\right)!}$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - \text{[illegible]}^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} \text{[illegible]}_{\boldsymbol{ik}} \wedge \boldsymbol{l_i} + \text{[illegible]} - s = \boldsymbol{l_s} \text{[illegible]}$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} \text{[illegible]} 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - \text{[illegible]} \wedge j_{sa}^{s} \leq j_{sa}^{\text{[illegible]}} \text{[illegible]} 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{s\text{[illegible]}}\right. \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \text{[illegible]} \wedge$

$\Bbbk \text{[illegible]} z = 1 \Rightarrow \text{[illegible]}$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!}$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - \text{[illegible]})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\text{[illegible]})}^{(\ )} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D\text{[illegible]})}^{\boldsymbol{l_s}+j_{sa}\text{[illegible]}}$$

$$\sum_{\text{[illegible]}=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(\text{[illegible]}-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_s^{s}\text{[illegible]}j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(\text{[illegible]} + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n}$ [illegible] $n \wedge \boldsymbol{l_s} \leq D -$ [illegible] $+ 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq$ [illegible] $+ j_{sa}^{ik} -$ [illegible] $\wedge$

j_{ik} [illegible] j_{sa} [illegible] $j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} +$ [illegible] $= \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

D [illegible] j_{sa} [illegible] $\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_s} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - k + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(D + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}}\right)! \cdot \left(\boldsymbol{n} + j_{sa} - j^{sa} - \text{[illegible]}\right)}$$

$$\sum_{k=\ _{i}\boldsymbol{l}} \ \sum_{\left(j_{ik}=j_{sa}^{ik}\text{[illegible]}\right)}^{(\ \ )} \ \sum_{\boldsymbol{l}_i+\boldsymbol{n}+\text{[illegible]}-D-s}^{\boldsymbol{l_i}+j_{sa}\text{[illegible]}{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\text{[illegible]}}^{n} \ \sum_{\text{[illegible]}\mathbb{k}-j_{ik}+1)}^{(n_i-\text{[illegible]}1)} \ \sum_{\text{[illegible]}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}\text{[illegible]}-\mathbb{k}}$$

$$\frac{\left(n_i - n_{ik}\text{[illegible]}\right)}{\text{[illegible]}_{ik} - 2)!\text{[illegible]}\left(n_i - n_{ik} - j_{ik} + 1\right)!} \cdot$$

$$\frac{\left(n_{ik}\text{[illegible]}_{sa} - \mathbb{k}\text{[illegible]}1\right)!}{\left(j^{sa}\text{[illegible]}_{ik} - 1\right)! \cdot \left(n_{i}\text{[illegible]} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}\right)!} \cdot$$

$$\frac{\left(n_{sa} - 1\right)!}{\left(n_{sa} + j^{sa} - \boldsymbol{n} - 1\right)! \cdot \left(\boldsymbol{n} - j^{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} - j_{sa}\right)!} \cdot$$

$$\frac{\left(D + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}}\right)! \cdot \left(\boldsymbol{n} + j_{sa} - j^{sa} - s\right)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \ \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{\left(n_i-j_s+1\right)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \ \sum_{\left(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}\right)}^{(\ \ )}$$

$$\frac{\left(n_i - s - I\right)!}{\left(n_i - \boldsymbol{n} - I\right)! \cdot \left(\boldsymbol{n} - s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k}>0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}<j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k}\,j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s-\mathbb{k} \wedge$

$\mathbb{k}_z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}_i-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-[illegible])!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{[illegible]}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=[illegible]j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{[illegible]+1}^{[illegible]+j_{sa}-k-j_{sa}^{ik}+[illegible]}$$

$$\sum_{[illegible]=\boldsymbol{n}+\Bbbk}^{[illegible]}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}^{[illegible]}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} = j^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j^{sa}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{j_{sa}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_s+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-\dots)!}{(\dots-j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-j_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\boldsymbol{l}}^{[illegible]} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}[illegible]}^{[illegible]}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}[illegible]j_{ik}[illegible]j^{sa}-\mathbb{k}}^{[illegible]}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - [illegible])!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa}[illegible] - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa}\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\ldots+1}^{n_{ik}+\ldots-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk \ldots)!}{(j^{sa} - j_{ik} - \ldots)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+j_{sa}-s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} = j^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{1}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+\dots-j_{sa}^{ik}}^{\boldsymbol{l}\dots-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{n}+j_{sa}-s}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{ik}}\leq D+\boldsymbol{l_s}+j_{sa}^{ik}-\boldsymbol{n}-1\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
\frac{(D+j^{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}[illegible]+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j[illegible]}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-[illegible]\mathbb{k})}^{(\ )}$$

$$\frac{([illegible]-s-I)!}{([illegible]\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{([illegible]-k-1)!}{(\boldsymbol{l_s}+j[illegible]-j_{ik}-[illegible])!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D[illegible]\boldsymbol{l_i})!}{(D+j^{sa}+[illegible]\boldsymbol{n}-\boldsymbol{l_i}-j[illegible])!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}[illegible]\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j[illegible]\leq\boldsymbol{n}+j_{sa}-s[illegible]$

$\boldsymbol{l}[illegible]-j_{sa}^{ik}+1[illegible]\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}[illegible]j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}[illegible]D+\boldsymbol{l_s}[illegible]\boldsymbol{n}-1\wedge$

$D\geq\boldsymbol{n}[illegible]n\wedge I=\mathbb{k}>[illegible]\wedge$

$j_{sa}\leq j_{sa}^{i}-[illegible]j_{sa}^{ik}<j[illegible]-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}[illegible]j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 5\wedge\boldsymbol{s}[illegible]s+\mathbb{k}\wedge$

$\mathbb{k}_z[illegible]=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible])}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}-s)[illegible]}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot([illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]-j_{sa})!\cdot(\boldsymbol{n}[illegible]j_{sa}-j^{sa}-s[illegible]}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-[illegible]\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}[illegible]j_{sa}-s=[illegible] \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+[illegible]+j_{sa}-\boldsymbol{n}-[illegible]$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{[illegible]}[illegible]j_{sa}-1 \wedge j_{sa}^{s}[illegible]j_{sa}^{ik}-[illegible] \wedge$

$\boldsymbol{s}[illegible]\{j_{sa}^{s},\cdots,j_{sa}^{[illegible]},[illegible],\Bbbk,j_{sa},[illegible],j_{sa}^{i}\} \wedge$

$s \geq [illegible] \wedge \boldsymbol{s}=s+\Bbbk$

$\Bbbk_z: z=[illegible] \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{\boldsymbol{i}}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} \ldots\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D \ldots\right)}^{\left(\boldsymbol{l_i}+j_{sa}^{ik}-{}_i\boldsymbol{l}-s+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\ldots\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\ldots j_{ik}+1)}^{(n_i \ldots 1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{\ldots+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - \ldots - 1)!}{(j_{ik} - \ldots)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1 \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j^{ik}_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot $$

$$ \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot $$

$$ \frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+ $$

$$ \sum_{k=} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j^{ik}_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j^{ik}_{sa}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot $$

$$ \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot $$

$$ \frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}- $$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-[illegible])}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{([illegible]-s-[illegible])!}{([illegible]-\boldsymbol{n}-I)!\cdot([illegible]-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-[illegible])!}{(\boldsymbol{l_s}+j_{sa}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-[illegible])!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+[illegible]-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-[illegible]=\boldsymbol{l_{ik}} \wedge$

$D+[illegible]-\boldsymbol{n} < \boldsymbol{l_{ik}} \leq [illegible]+\boldsymbol{l_s}+j_{sa}^{ik}-[illegible] \vee$

$(D \geq \boldsymbol{n} < n \wedge [illegible] \leq D-[illegible]1 \wedge$

$j_{sa}^{ik} [illegible] \leq j^{sa}+[illegible]j_{sa} \wedge$

$[illegible]+j_{sa}-[illegible] \leq j^{sa} \leq [illegible]+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-[illegible]+1 > [illegible]+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-[illegible] < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big) \wedge$

$[illegible] \geq \boldsymbol{n} [illegible] \wedge I=\mathbb{k}>0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-{}_i\boldsymbol{l}-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\ldots)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i-\ldots)!}{(\ldots-\boldsymbol{n}-I)!\cdot(\ldots-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\!:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
\frac{(j^{sa}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_s}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-\ldots}$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}\ldots)}^{(\ )}\ \sum_{j^{sa}=\ldots+\boldsymbol{n}-D}^{\ldots-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\ldots}^{n}\ \sum_{\ldots\Bbbk-j_{ik}+1)}^{(n_i-\ldots1)}\ \sum_{\ldots=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}\ldots-\Bbbk}$$

$$\frac{(n_i-n_{ik}\ldots)!}{(\ldots_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}\ldots_{sa}-\Bbbk\ldots1)!}{(j^{sa}\ldots_{ik}-1)!\cdot(n_{i\ldots}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \land$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \land$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-$ [illegible] $\boldsymbol{l_{ik}} \land \boldsymbol{l_i}$ [illegible] $j_{sa}-s=$ [illegible] $\land$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+$ [illegible] $+j_{sa}-\boldsymbol{n}-$ [illegible] $) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq$ [illegible] $-1 \land j_{sa}^{ik}$ [illegible] $j_{sa}-1 \land j_{sa}^{s} \leq$ [illegible] $\land$

$\boldsymbol{s}$ [illegible] $_{sa}^{s}, \cdots, j_{sa}^{ik}$ [illegible] $\mathbb{k}, j_{sa},$ [illegible] $j_{sa}^{i}\} \land$

$s \geq$ [illegible] $\land \boldsymbol{s} = s + \mathbb{k}$ [illegible]

$\mathbb{k}_z : z =$ [illegible] $\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \text{[illegible]})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\text{[illegible]} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \text{[illegible]}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - \text{[illegible]})!} \cdot$$

$$\frac{(\text{[illegible]} - \boldsymbol{l_{sa}} - s\text{[illegible]})!}{(\text{[illegible]} + j^{sa} - \boldsymbol{n} - \text{[illegible]})! \cdot (\text{[illegible]} - j^{sa} - s)!} -$$

$$\sum_{\text{[illegible]}=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\text{[illegible]}_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}\text{[illegible]})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ \ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$(\text{[illegible]} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{s}$[illegible]$ - j_{sa} > \boldsymbol{l_{ik}} \wedge$ [illegible] $+ j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1))$

$D \geq \boldsymbol{n} < n \wedge l = \mathbb{k} >$ [illegible] $\wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{s}$[illegible]$ < j_{sa} -$ [illegible] $\wedge j_{s}^{s}$ [illegible] $j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s},$ [illegible] $, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}$[illegible]$\cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} =$ [illegible] $+ \mathbb{k} \wedge$

$\mathbb{k}_z:$ [illegible] $\Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l}} \sum_{(j_{ik}=\boldsymbol{l}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-\ldots}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\,_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-\,_{i}\boldsymbol{l}+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-\,_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{s\,\text{[illegible]}}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}\ \text{[illegible]}\ j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}\ \text{[illegible]}-\Bbbk)!}\cdot$$

$$\frac{(\text{[illegible]}-1)!}{(\text{[illegible]}\ j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\text{[illegible]}-\,_{i}\boldsymbol{l}\ \text{[illegible]})!}{(\boldsymbol{l_{ik}}\ \text{[illegible]}\ _{ik}-\,_{i}\boldsymbol{l}\ \text{[illegible]}\ 1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+\text{[illegible]}-\boldsymbol{l_{ik}}-\text{[illegible]}_{a})!}{(j_{ik}+\text{[illegible]}-j^{sa}-\boldsymbol{l_{ik}})!\ \text{[illegible]}\ (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\text{[illegible]}-\boldsymbol{l_{sa}}-s)!}{(D\ \text{[illegible]}\ ^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{\text{[illegible]}1}^{D+\boldsymbol{l_s}+s\,\text{[illegible]}\,\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ \ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ \ )}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$$

$$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}:\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$$

$$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)} \sum_{j^{sa}=\ldots+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}\ldots-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}\ldots+1}^{n_{ik}+\ldots-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - \ldots - 1)!}{(\ldots)! \cdot (n_i - \ldots - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - \ldots - \mathbb{k} - \ldots)!}{(j^{sa} - j_{ik} - \ldots)! \cdot (n_{ik} - \ldots - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} \ldots 1)!}{(n_{sa} + \ldots - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\ldots - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(\ldots + \boldsymbol{l}\ldots - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\;)}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}\text{[illegible]}}^{DOSD} = \sum_{k=1}^{\text{[illegible]}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\text{[illegible]}\, j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \text{[illegible]} j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - \text{[illegible]} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} \text{[illegible]} \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \text{[illegible]} - j^{sa} \text{[illegible]} \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}^{s})}$$

$$\sum_{n_{ik}=n+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i - s - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} - s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} - \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D > \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa}\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)}\sum_{j^{sa}=\boldsymbol{l_i}+[illegible]+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\boldsymbol{n}}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=[illegible]-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(n_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-[illegible])!}{(j^{sa}-j_{ik}-[illegible])!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\boldsymbol{n}}\sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i-s-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}-s)!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} > D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge$

$\boldsymbol{l_{sa}} > D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik})\big)$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{ik} \leq j_{sa}^{ik} - 1$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-[illegible]\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-[illegible]-s)!}\cdot$$

$$\sum_{k={}_i\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1\right)}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+[illegible])}^{[illegible]}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-[illegible]}^{[illegible]+1}$$

$$\sum_{n_i=[illegible]}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+[illegible]_{ik}+1)}^{(n_i-[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{[illegible]}-j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-[illegible]-1)!}{(j_{ik}-[illegible])!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{([illegible]-\mathbb{k}-1)!}{(j^{sa}[illegible]_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$[illegible] S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{[illegible] + j_{sa} - \boldsymbol{l_{sa}} - j_{sa}^{ik} + 1} \sum_{(j_{ik} = [illegible] + j_{sa}^{ik} - j_{sa})}^{(\;)} \sum_{j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + j_{sa} - k} \right.$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}} - j_{sa}^{ik} + 1} \sum_{(j_{ik} = \boldsymbol{l_s} + \boldsymbol{n} + j_{sa}^{ik} - D - 1)}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + j_{sa} - k} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+2}^{D-\boldsymbol{n}+1}\;\sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j^{ik}_{sa}-D-1)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{\text{[illegible]} + j_{sa} \text{[illegible]} \boldsymbol{l_{sa}} - j_{sa}^{ik} + 1} \sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+\text{[illegible]}-D-j_{sa})}^{(\boldsymbol{l_s}+\text{[illegible]}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right.$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+\cdots}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\cdots j_{sa}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k\cdots}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}\text{[illegible]}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}\text{[illegible]}j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{s\text{[illegible]}}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}\text{[illegible]}n_{sa}\text{[illegible]}j^{sa})!}\cdot$$

$$\frac{(\text{[illegible]}-1)!}{(n\text{[illegible]}+j^{sa}-\boldsymbol{n}\text{[illegible]}1)!\cdot(\boldsymbol{n}-j^{sa}\text{[illegible]})}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\text{[illegible]}^{ik}\text{[illegible]})}{(\boldsymbol{l}\text{[illegible]}-j_{ik}-\text{[illegible]}1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+\text{[illegible]}^{ik}-\boldsymbol{l_{ik}}-\text{[illegible]}a)!}{(j_{ik}+\text{[illegible]}-j^{sa}-\boldsymbol{l_{ik}})\text{[illegible]}(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{\text{[illegible]}D+j_{s}\text{[illegible]}\boldsymbol{l_{sa}}-s)!}{(D+\text{[illegible]}a-\boldsymbol{n}-\text{[illegible]}sa)!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{\text{[illegible]}1}^{D+\boldsymbol{l_s}+s\text{[illegible]}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \land$

$s \geq 4 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\Bigg)+$$

$$\Bigg(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{([illegible]+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+[illegible]-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-\cdots)}$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}\cdots D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\cdots+\boldsymbol{n}-D}^{\cdots-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\cdots}^{n}\ \sum_{\cdots\boldsymbol{n}+\Bbbk-j_{ik}+\cdots}^{(n_i-\cdots+1)}\ \sum_{\cdots=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}\cdots-\Bbbk}$$

$$\frac{(n_i-\cdots)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(\cdots-n_{sa}\cdots 1)!}{(\cdots^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(\cdots^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\cdots+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} [illegible]}$$

$\Big((D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}\big) \vee$

$(D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}\big)\Big) \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk \ge 0 \wedge$

$j_{sa} \le j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{[illegible]} \le j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_s^s, \ldots, j_{sa}^{ik}, \Bbbk, j_{sa}, \ldots, j_{sa}^{i}\} \wedge$

s [illegible] $4 \wedge \boldsymbol{s} = s$ [illegible] $\Bbbk \wedge$

$\Bbbk_z$ [illegible] $= 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-\text{[illegible]}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-\text{[illegible]}-s)!}\right)$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-\text{[illegible]}}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\text{[illegible]}}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-\text{[illegible]}}^{\boldsymbol{l_{sa}}\text{[illegible]}+1}\right.$$

$$\sum_{n_i=\text{[illegible]}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\text{[illegible]}j_{ik}+1)}^{(n_i\text{[illegible]})}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n\text{[illegible]}j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-\text{[illegible]}-1)!}{(j_{ik}-\text{[illegible]}\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n\text{[illegible]}-n_{sa}-1)!}{\text{[illegible]}^{sa}-j_{ik}-\text{[illegible]})!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+[illegible]+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}}^{D-\boldsymbol{n}+[illegible]} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+[illegible]D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{[illegible]+1}$$

$$\sum_{n_i=\boldsymbol{n}[illegible]}^{n} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n[illegible]j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\ \text{[illegible]})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}\ \text{[illegible]}\ s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-\text{[illegible]}-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(\text{[illegible]}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}\ \text{[illegible]})!\cdot(\boldsymbol{n}\ \text{[illegible]}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik}$ [illegible] $\wedge\ \boldsymbol{l_i}$ [illegible] $- s >$ [illegible] $\wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0$ [illegible]

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1$ [illegible] $\leq j_{sa}^{ik} - 1$ [illegible]

$\boldsymbol{s}\colon \{j_{s}^{s}$, [illegible], $j_{sa}^{ik}, \Bbbk, j_{sa}$, [illegible], $j_{sa}^{i}\} \wedge$

[illegible] $4 \wedge \boldsymbol{s} = s$ [illegible] $\Bbbk \wedge$

$\Bbbk_z$ [illegible] $= 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}-D-1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-[illegible])!}\cdot$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}[illegible]}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+[illegible]-D-s}^{\boldsymbol{l_s}+[illegible]a-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}\ \sum_{([illegible]\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i[illegible]}$$

$$\sum_{n_{ik}[illegible]+j_{sa}^{s}-j_{sa}^{i}[illegible]}\ \sum_{[illegible]a=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(}$$

$$\frac{\left([illegible]+j_{ik}+j_{sa}[illegible]^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}[illegible]I)!\cdot\left(\boldsymbol{n}+j[illegible]+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{[illegible]\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}[illegible]s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}$[illegible]$D - \boldsymbol{n}$[illegible]$1 \wedge$

j_{sa}^{ik}[illegible]$\leq j_{ik} \leq j^{sa}$[illegible]$^{ik}_{a} - j_{sa}$[illegible]

[illegible]$_{ik} + j_{sa}$[illegible]$^{ik}_{a} \leq j^{sa} \leq$[illegible]$+ j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} -$[illegible]$^{ik} + 1 =$[illegible]$\boldsymbol{_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} <$[illegible]$I = \mathbb{k} \geq 0 \wedge$

[illegible]$< j^{i}_{s}$[illegible]$1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}\text{[illegible]}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}\text{[illegible]}j_{ik}+1)!}\cdot $$

$$ \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}\text{[illegible]}n_{sa}-j^{sa})!}\cdot $$

$$ \frac{(\text{[illegible]}-1)!}{(n\text{[illegible]}+j^{sa}-\boldsymbol{n}\text{[illegible]})!\cdot(\boldsymbol{n}-j^{sa}\text{[illegible]})!}\cdot $$

$$ \frac{(\boldsymbol{l_{ik}}-\text{[illegible]}^{ik}\text{[illegible]})!}{(\boldsymbol{l}\text{[illegible]}j_{ik}-\text{[illegible]}1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot $$

$$ \frac{(D\text{[illegible]}_{sa}-\boldsymbol{l_{sa}}\text{[illegible]}s)!}{(D\text{[illegible]}j^{sa}-\boldsymbol{n}-\boldsymbol{l_s}\text{[illegible]})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}- $$

$$ \sum_{k=\text{[illegible]}}^{\boldsymbol{l_s}+s-\boldsymbol{n}\text{[illegible]}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j\text{[illegible]}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} $$

$$ \sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )} $$

$$ \frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot $$

$$ \frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot $$

$$ \frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} $$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -
$$

$$
\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+j_{sa}-k}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
$$

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}
$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_{Z,j^{sa}}^{DOSD} = \sum_{\boldsymbol{l_s}=1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\text{[illegible]})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\text{[illegible]}-j^{sa}-\Bbbk)}^{(\text{[illegible]})}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\text{[illegible]}\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+\text{[illegible]}-j^{sa}-s-\text{[illegible]}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-\text{[illegible]})!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-\text{[illegible]}\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\text{[illegible]})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]}-j_{sa})!\cdot(\text{[illegible]}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-\text{[illegible]} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+\text{[illegible]}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l}\text{[illegible]} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\text{[illegible]} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l}\text{[illegible]}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D \geq \text{[illegible]} < n \wedge I=\Bbbk \text{[illegible]} 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge \text{[illegible]}=j_{sa}-\text{[illegible]} \wedge j_{sa}^{s}\text{[illegible]}j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{s}\text{[illegible]},j_{sa}^{ik},\Bbbk,j_{sa},\text{[illegible]}j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}\text{[illegible]}s+\Bbbk \wedge$

$\Bbbk_z:\text{[illegible]}1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+\ldots}\ \sum_{(j_{ik}=\boldsymbol{l_s}\ldots+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{s}\ldots k)}\ \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_i}+j_{sa}\ldots-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\boldsymbol{n}}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n\ldots-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\cdots}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}\cdots s-j_{sa}^{ik})\cdots}\cdot$$

$$\frac{(\boldsymbol{l_s}-\cdots-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}\cdots k)!\cdot(\cdots-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\cdots)!\cdot(\boldsymbol{n}\cdots-j^{sa}-s)\cdots}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} \cdots \wedge \boldsymbol{l_i} \cdots - s = \cdots \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \cdots$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge \cdots \leq j_{sa}^{ik} - 1 \cdots$

$\boldsymbol{s}: \{j_{s}^{s} \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa} \cdots, j_{sa}^{i}\} \wedge$

$s \cdots 4 \wedge \boldsymbol{s} = s \cdots \mathbb{k} \wedge$

$\mathbb{k}_z \cdots = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-\text{[illegible]}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-\text{[illegible]}-s)!}\text{[illegible]}$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-\text{[illegible]})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{\text{[illegible]}^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\text{[illegible]}s+1}$$

$$\sum_{n_i=\text{[illegible]}\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\text{[illegible]}j_{ik}+1)}^{(n_i\text{[illegible]}1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{\text{[illegible]}j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-\text{[illegible]}-1)!}{(j_{ik}-\text{[illegible]})!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{i\text{[illegible]}}-n_{sa}-1)!}{(\text{[illegible]}^{sa}-j_{ik}\text{[illegible]})!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=[illegible]-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=[illegible]+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\dots)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{s}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\dots,j_{sa}^{ik},\Bbbk,j_{sa},\dots,j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{\text{[illegible]}}^{D-\text{[illegible]}}\sum_{(j_{ik}=\boldsymbol{l_{sa}}\text{[illegible]}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}\text{[illegible]})}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-s)!}{(D+j^{sa}+s-\boldsymbol{n}-j_{ik}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\colon z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )}\sum_{j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D}^{\boldsymbol{l}_{sa}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik})}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l}_{sa}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l}_{sa}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-
$$

$$
\sum_{k=1}^{\cdots+\boldsymbol{l}_s+\cdots\boldsymbol{n}-\boldsymbol{l}_i}\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )}\sum_{j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l}_s+j_{sa}-k}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}
$$

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}
$$

$$
\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot
$$

$$
\frac{(\boldsymbol{l}_s-k-1)!}{\left(\boldsymbol{l}_s+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} = j_{sa}-1 \wedge j_{sa}^{s} < j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s+1 \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-\text{[illegible]})!}\text{[illegible]}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D\text{[illegible]}\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\;\sum_{j^{sa}=j_{ik}+\text{[illegible]}-j_{sa}^{ik}}^{\text{[illegible]}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\text{[illegible]}}\;\sum_{\left(n_{\text{[illegible]}}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-\text{[illegible]})}$$

$$\sum_{n_{ik}=\text{[illegible]}+j_{sa}^{s}-j_{sa}^{ik}}^{\text{[illegible]}}\;\sum_{\text{[illegible]}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\text{[illegible]}}$$

$$\frac{\left(\text{[illegible]}+j_{ik}+j_{sa}-\text{[illegible]}^{sa}-s-j_{sa}^{ik}-I\right)!}{(\text{[illegible]}-\boldsymbol{n}-\text{[illegible]})!\cdot\left(\boldsymbol{n}+j\text{[illegible]}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\text{[illegible]}\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+\text{[illegible]}s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \text{[illegible]} > D - \text{[illegible]} + 1 \wedge$

$j_{sa}^{ik} + \text{[illegible]} \leq j_{ik} \leq j^{sa} + \text{[illegible]} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \text{[illegible]} \leq j^{sa} \leq \text{[illegible]} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - \text{[illegible]} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < \text{[illegible]} \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$\text{[illegible]} j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\mathbf{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i} \right\} \land$

$s \geq 4 \land \mathbf{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\mathbf{l_{ik}}+\mathbf{n}+k-D-j_{sa}^{ik}}^{\mathbf{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} $$

$$ \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot $$

$$ \frac{(\mathbf{l_{ik}} - k - j_{sa}^{ik})!}{(\mathbf{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$ \frac{(D + j_{sa} - \mathbf{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - $$

$$ \sum_{k=1}^{D+\mathbf{l_s}+s-\mathbf{n}-\mathbf{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\mathbf{l_i}+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l_s}+j_{sa}-k} $$

$$ \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{is}=\mathbf{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} $$

$$ \sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{()} $$

$$ \frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \mathbf{n} - I)! \cdot \left(\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot $$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1$ [illegible] $_{sa}$ [illegible] $^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z: z=1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=n_i+j^{sa}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\,)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k-1\right)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_i}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_i}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\text{[illegible]}}^{(\ )} \sum_{\text{[illegible]}=\boldsymbol{l_i}+\boldsymbol{n}+\text{[illegible]}-D-s}^{\boldsymbol{l_s}\text{[illegible]}a-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\text{[illegible]}} \sum_{(n\text{[illegible]}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s\text{[illegible]}}$$

$$\sum_{n_{ik}=\text{[illegible]}+j_{sa}^{s}-j_{sa}^{ik}\text{[illegible]}} \sum_{\text{[illegible]}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{\left(\text{[illegible]} + j_{ik} + j_{sa} - \text{[illegible]}^{sa} - s - j_{sa}^{ik} - I\right)!}{\text{[illegible]} - \boldsymbol{n} - \text{[illegible]})! \cdot \left(\boldsymbol{n} + j\text{[illegible]} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\text{[illegible]}\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\big)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j\text{[illegible]}s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \text{[illegible]} > D - \text{[illegible]} 1 \wedge$

$j_{sa}^{ik} + \text{[illegible]} \leq j_{ik} \leq j^{sa} + \text{[illegible]}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \text{[illegible]}^{ik} \leq j^{sa} \leq \text{[illegible]} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} \text{[illegible]} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < \text{[illegible]} \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$\text{[illegible]} j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j\text{[illegible]}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-\text{[illegible]})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}\text{[illegible]})}^{\text{[illegible]}}$$

$$\sum_{n_i\text{[illegible]}+\Bbbk}^{\text{[illegible]}}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(\text{[illegible]}j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s\text{[illegible]}}-j_{sa}^{ik}}^{\text{[illegible]}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(\text{[illegible]}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}\text{[illegible]}I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$((D \geq \boldsymbol{n}\text{[illegible]}n \wedge \boldsymbol{l_s} > D\text{[illegible]}\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+\text{[illegible]} \leq j_{ik} \leq \text{[illegible]}j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-\text{[illegible]}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\text{[illegible]}-j^{ik}\text{[illegible]} = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\Big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

[illegible] $\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{[illegible]}^{D-[illegible]} \sum_{(j_{ik}-[illegible]j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k[illegible])} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-[illegible])}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-[illegible])!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+[illegible]-j^{sa}-s-[illegible]^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-[illegible])!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-[illegible])!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i}[illegible])!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]-j_{sa})!\cdot([illegible]+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+[illegible]-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=[illegible] \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-[illegible] > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq [illegible]+[illegible]-\boldsymbol{n} \wedge [illegible] \leq D+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I [illegible] \Bbbk \geq 0 \wedge$

$j_{sa} \leq [illegible]-1 \wedge j_{sa}^{ik}=[illegible]-1 \wedge j_{sa} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,[illegible],\Bbbk,j_{sa},\cdots,[illegible]\} \wedge$

$s \geq [illegible] = s+\Bbbk \wedge$

$\Bbbk_z: z=1 [illegible]$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\ldots}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\ldots j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}\ldots+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n\ldots j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j\text{[illegible]})!}$$

$$\frac{(n_{sa}-1)\text{[illegible]}}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot\text{[illegible]}-j^{sa})!}$$

$$\frac{(\boldsymbol{l_{sa}}+\text{[illegible]}_{sa}^{ik}-\boldsymbol{l_{ik}}\text{[illegible]})}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{s\text{[illegible]}}\boldsymbol{l_{ik}})!\cdot(j^{sa}\text{[illegible]})!}\cdot$$

$$\frac{(\text{[illegible]}\boldsymbol{l_{sa}}-s\text{[illegible]}}{(\text{[illegible]}j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\text{[illegible]}-\text{[illegible]}^{a}-s)!}-$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(\text{[illegible]}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\text{[illegible]})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{sa}^{ik}, j_{sa}}^{SD} = \sum_{k=1}^{\mathbb{k}} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ \ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{s\text{[illegible]}}\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{s}\text{[illegible]}}$$

$$\frac{(n_i-n_{ik}-1)\text{[illegible]}}{(j_{ik}-2)!\cdot(n_i-\text{[illegible]}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{\text{[illegible]}}-1)!}{(j^{sa}-j_{ik}\text{[illegible]}1)!\cdot(n_{ik}+\text{[illegible]}-n_{sa}-j^{sa}\text{[illegible]}}\cdot$$

$$\frac{\text{[illegible]}1)!}{\text{[illegible]}n_{sa}+\text{[illegible]}-\boldsymbol{n}-1)!\cdot\text{[illegible]}-j^{sa})!}\cdot$$

$$\frac{\text{[illegible]}+j_{sa}^{ik}\text{[illegible]}-j_{sa})!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}\text{[illegible]}j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{s}\text{[illegible]}\boldsymbol{l_{sa}}-s)!}{(D\text{[illegible]}j^{sa}-\text{[illegible]})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ \ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible]}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}[illegible]s-j_{sa}^{ik}\right)[illegible]}\cdot$$

$$\frac{(D-\boldsymbol{l_i})[illegible]}{(D+s-\boldsymbol{n}[illegible])!\cdot[illegible]-s)!}$$

$D \geq \boldsymbol{n} < n \land \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 [illegible] j_{sa} = [illegible] - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}[illegible]$

$s \geq 4 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z [illegible] 1 \Rightarrow$

$$[illegible]S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k= {}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!}\right) +$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\ldots$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-\ldots)}^{(\ )}\sum_{j^{sa}=j_{\ldots}+1}^{\boldsymbol{l_{ik}}+j_{\ldots}-k-j_{sa}^{ik}+1}$$

$$\sum_{\ldots=\boldsymbol{n}+\mathbb{k}}\sum_{(n_{\ldots}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s}\ldots)}$$

$$\sum_{n_{ik}=\ldots j_{sa}^{s}-j_{sa}^{ik}}\sum_{\ldots=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(\ldots+j_{ik}+j_{sa}-\ldots^{sa}-s-j_{sa}^{ik}-I)!}{\ldots-\boldsymbol{n}-\ldots)!\cdot(\boldsymbol{n}+\ldots+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\ldots\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{s}\ldots-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{j_{ik}=j^{sa}+j_{sa}\text{[illegible]}}^{(\text{[illegible]}} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-\text{[illegible]}} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}\text{[illegible]}+\mathbb{k}-j_{ik}+1)}^{(n_i-\text{[illegible]}1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(\text{[illegible]}2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s\text{[illegible]}} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!}\right)$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\cdots k+1)}^{(j^{sa}+j_{sa}\cdots-1)} \sum_{j^{sa}=j_{sa}\cdots}^{\boldsymbol{l_s}\cdots a-k}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} + j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \cdots\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(\cdots^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - \cdots)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik} = j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i - j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\text{[illegible]})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(\text{[illegible]}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-\text{[illegible]})!\cdot(\boldsymbol{n}+\text{[illegible]}-j^{sa}-s)!}+$$

$$\sum_{k=\text{[illegible]}}\ \sum_{(j_{ik}=j_{sa}^{ik})}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\text{[illegible]}}^{n}\ \sum_{(n_{ik}=\text{[illegible]}j_{ik}+1)}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} = D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - \text{[illegible]} - 1 \wedge$

$j_{ik} + j_{sa} - \text{[illegible]} + 1 \leq \text{[illegible]} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{i}} \text{[illegible]} j_{sa}^{i} \text{[illegible]} 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \text{[illegible]} j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{ik}_{sa}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}} \right. $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot $$

$$ \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot $$

$$ \frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+ $$

$$ \sum_{k={}_i\boldsymbol{l}} \sum_{\left(j_{ik}=j^{ik}_{sa}\right)}^{(\;)} \sum_{j^{sa}=j_{sa}} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot $$

$$ \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot $$

$$ \left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!} \right)+ $$

$$ \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{ik}_{sa}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}+1}^{\boldsymbol{l_{sa}}-k+1} \right. $$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{ik}+j_{sa}^{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\boldsymbol{l_{sa}})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\boldsymbol{l_{sa}})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-\dots)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} \right) +
$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\Bigg)-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{s}}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}-j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik}\wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(j^{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{ik}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_i\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{ik}}-k-j_{sa})!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l}_{\boldsymbol{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-\text{[illegible]})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\text{[illegible]}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-\text{[illegible]})!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+\text{[illegible]}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-\text{[illegible]})!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\text{[illegible]})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]}-j_{sa})!\cdot(\text{[illegible]}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-\text{[illegible]} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \text{[illegible]}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l}\text{[illegible]} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\text{[illegible]} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}} \leq \text{[illegible]}+\boldsymbol{l_{ik}}+j_{sa}-\text{[illegible]}_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I \text{[illegible]} \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq \text{[illegible]}-1 \wedge j_{sa}^{ik}=\text{[illegible]}-1 \wedge j_{sa} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,\text{[illegible]}\,\mathbb{k},j_{sa},\cdots,\text{[illegible]}_{a}\} \wedge$

$s \geq \text{[illegible]}\boldsymbol{s}=s+\text{[illegible]}$

$\mathbb{k}_z: z=1\text{[illegible]}$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j\text{[illegible]})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\text{[illegible]} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{i}}\text{[illegible]} - k - j_{sa}\text{[illegible]})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + \text{[illegible]})! \cdot (j_{ik} - j_{sa}^{ik}\text{[illegible]}1)!} \cdot$$

$$\left.\frac{(D\text{[illegible]}\boldsymbol{l_{sa}} - s)!}{(D\text{[illegible]}j^{sa} - \boldsymbol{n} - \boldsymbol{l_{s}}\text{[illegible]})! \cdot (\boldsymbol{n}\text{[illegible]} - s)!}\right) +$$

$$\left(\sum_{\text{[illegible]}=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j\text{[illegible]}+1} \sum_{(\text{[illegible]}=j_{sa}^{ik}+1)}^{(j^{sa}+j\text{[illegible]}j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\text{[illegible]}} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(\text{[illegible]}j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\ldots-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{\ldots-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D\text{[illegible]}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}\text{[illegible]}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{\text{[illegible]}+1}^{n_{ik}+\text{[illegible]}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i\text{[illegible]}-1)!}{(\text{[illegible]}2)!\cdot(n_i-\text{[illegible]}-j_{ik}+1)!}\cdot$$

$$\frac{(\text{[illegible]}-n_{sa}\text{[illegible]})!}{(j^{sa}-\text{[illegible]}-1)!\cdot(\text{[illegible]}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}\text{[illegible]}1)!}{(n_{sa}+\text{[illegible]}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}\text{[illegible]}j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}\text{[illegible]}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{s\text{[illegible]}}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D\text{[illegible]}s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\text{[illegible]}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D\text{[illegible]}\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}\text{[illegible]}-j_{sa}^{ik}}^{\text{[illegible]}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\text{[illegible]}}\ \sum_{\left(n\text{[illegible]}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-\text{[illegible]})}$$

$$\sum_{n_{ik}=\text{[illegible]}+j_{sa}^{s}-j_{sa}^{ik}\text{[illegible]}}\ \sum_{\text{[illegible]}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{\left(\text{[illegible]}+j_{ik}+j_{sa}-\text{[illegible]}^{sa}-s-j_{sa}^{ik}-I\right)!}{(\text{[illegible]}-\boldsymbol{n}\text{[illegible]})!\cdot\left(\boldsymbol{n}+j\text{[illegible]}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\text{[illegible]}\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+\text{[illegible]}s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s}$ [illegible] $D-\boldsymbol{n}$ [illegible] $1 \wedge$

j_{sa}^{ik} [illegible] $\le j^{sa}+j_{sa}^{ik}$ [illegible] $j_{sa}-1$ [illegible]

$j_{ik}+j_{sa}-$ [illegible] $+1 \le j^{s}$ [illegible] $\le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-$ [illegible] $+1=$ [illegible] $+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-$ [illegible] $< \boldsymbol{l_{sa}} \le D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

[illegible] $> \boldsymbol{n}$ [illegible] $\wedge I = \mathbb{k} \ge 0 \wedge$

$j_{sa} \le j_{sa}^{i}-1 \wedge j_{sa}^{ik} = j_{sa}-1 \wedge j_{sa}^{s} \le j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \ge 4 \wedge \boldsymbol{s} = s+\mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.
$$

$$
\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\quad\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\quad\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\quad\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\quad\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\quad\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\quad\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\quad\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\quad\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-\text{[illegible]}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-\text{[illegible]})!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{\text{[illegible]}\,\boldsymbol{l}}^{\text{[illegible]}}\;\sum_{(j_{ik}=j^{\text{[illegible]}}_{sa})}^{(\text{[illegible]}}\;\sum_{\text{[illegible]}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-\ {}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\text{[illegible]}-\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}\text{[illegible]})}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \leq D+j_{sa}^{ik}-\boldsymbol{n} \wedge \boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}+1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\mathbb{k}$

$\mathbb{k} \wedge z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{[illegible]+1}^{n_{ik}+[illegible]-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - [illegible] - 1)!}{([illegible]2)! \cdot (n_i - [illegible] - j_{ik} + 1)!} \cdot$$

$$\frac{([illegible] - n_{sa} [illegible])!}{(j^{sa} - [illegible] - 1)! \cdot ([illegible] + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + [illegible] - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ {}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ \ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ \ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\ \Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \leq D+j_{sa}^{ik}-\boldsymbol{n} \wedge \boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}-j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}=\{j_{sa}^{s},\cdots,j_{sa}^{ik},j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\Bbbk$

$\Bbbk_z : z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-j_{sa}+1\right)}\sum_{\left(j_{ik}=j_{sa}^{ik}\right)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible])!}$$

$$\sum_{k=[illegible]} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{[illegible]a=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{[illegible]-j_{ik}+1)}^{(\ )} \sum_{n_{sa}[illegible]ik+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + [illegible] + j_{sa} - [illegible]^{sa} - s - [illegible]^{ik} [illegible]\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{([illegible] - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n}$ [illegible] $\land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$ [illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} -$ [illegible] $\land$

$\boldsymbol{l_{ik}} - j_{sa} +$ [illegible] $> \boldsymbol{l_s} \land \boldsymbol{l}$[illegible] $+ j_{sa}^{ik} - j_{sa} >$ [illegible]

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})$ [illegible]

$(D \geq$ [illegible] $< n \land \boldsymbol{l_s} \leq D$ [illegible] $\boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq$ [illegible]$^{sa} + j_{sa}^{ik} -$ [illegible] $\land$

$j_{ik} +$ [illegible] $- j_{sa}^{ik} \leq j$[illegible] $\leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{sa}} - j_{sa} +$ [illegible] $> \boldsymbol{l_s} \land$

[illegible] $\leq D$ [illegible] $j_{sa} - \boldsymbol{n} \land \boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot $$

$$ \frac{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_{sa}}-k+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - k + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(D + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}}\right)! \cdot \left(\boldsymbol{n} + j_{sa} - j^{sa} - \text{[illegible]}\right)!}$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} + \text{[illegible]}\right)} \sum_{\left(j_{\text{[illegible]}} \text{[illegible]}_{ik}\right)}^{\text{[illegible]}} \sum_{j^{\text{[illegible]}} = j_{sa}}^{\text{[illegible]}_{sa} - {}_{i}\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \text{[illegible]}_{ik}}^{n} \sum_{\text{[illegible]} - j_{ik} + 1)}^{\left(n_i - j_{\text{[illegible]}}\text{[illegible]}\right)} \sum_{\text{[illegible]} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - \text{[illegible]}\mathbb{k}}$$

$$\frac{\left(n_i - n_{ik}\text{[illegible]}\right)}{\text{[illegible]} - 2)! \cdot \left(n_i - n_{ik} - j_{ik} + 1\right)!} \cdot$$

$$\frac{\left(\text{[illegible]} - n_{sa} - 1\right)!}{\left(\text{[illegible]} - j_{ik} - 1\right)! \cdot \left(n_{ik} + j_{ik} - n_{sa} - j^{sa}\right)!} \cdot$$

$$\frac{\left(n_{sa} - 1\right)!}{\left(n_{sa} + j^{sa} - \boldsymbol{n} - 1\right)! \cdot \left(\boldsymbol{n} - j^{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(D + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}}\right)! \cdot \left(\boldsymbol{n} + j_{sa} - j^{sa} - s\right)!} -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}\right)}^{(\ )} \sum_{j^{sa} = j_{sa} + 1}^{\boldsymbol{l_s} + j_{sa} - k}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{\left(n_{is} = \boldsymbol{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}\right)}^{\left(n_i - j_s + 1\right)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{s} - j_{sa}^{ik}} \sum_{\left(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}\right)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=\ldots} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(\ldots - j_{ik}+1)}^{(\ )} \sum_{n_{sa}=\ldots + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_i} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$ \frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s \ldots}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik} \ldots}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{\ldots = j_{ik} + \ldots - j_{sa}^{ik}}$$

$$\sum_{\ldots \boldsymbol{n}+\Bbbk}^{\ldots} \sum_{(n_{is} \ldots \Bbbk + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + \ldots}$$

$$\sum_{n_{ik}=n \ldots j_{sa}^{s} - j_{sa}^{ik}} \sum_{(\ldots = n_{ik} + j_{ik} - j^{sa} - \Bbbk)}$$

$$\frac{(\ldots + j_{ik} + j_{sa} - \ldots^{sa} - s - j_{sa}^{ik} - I)!}{\ldots - \boldsymbol{n} - \ldots \cdot \left(\boldsymbol{n} + \ldots + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\ldots_{\boldsymbol{s}} + j_{sa}^{ik} - j_{ik} - k)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{s\ldots} \ldots s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land$$

$$D \geq \boldsymbol{n} < n \land I = \mathbb{k} \geq 0 \land$$

$$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$$

$$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$$

$$s \geq 4 \land \boldsymbol{s} = s + \mathbb{k} \land$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j^{ik}_{sa}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(j^{sa}+j^{ik}_{sa}-j_{sa}-1)}\sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \sum_{j^{sa}=j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{s\text{[illegible]}}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}\text{[illegible]}j_{ik}+1)\text{[illegible]}}\cdot$$

$$\frac{(n_{ik}-n_{s}\text{[illegible]}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}\text{[illegible]}j^{sa})!}\cdot$$

$$\frac{(\text{[illegible]}-1)!}{(\text{[illegible]}+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}-j^{sa}\text{[illegible]})}\cdot$$

$$\frac{(\text{[illegible]}-{}_i\boldsymbol{l}\text{[illegible]})\text{[illegible]}}{(\boldsymbol{l_{ik}}\text{[illegible]}-{}_i\boldsymbol{l}\text{[illegible]}1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+\text{[illegible]}-\boldsymbol{l_{ik}}-\text{[illegible]})!}{(j_{ik}+\text{[illegible]}-j^{sa}-\boldsymbol{l_{ik}})\text{[illegible]}(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{\text{[illegible]}+j\text{[illegible]}\boldsymbol{l_{sa}}-s)!}{(D+\text{[illegible]}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\text{[illegible]}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}\ \text{[illegible]}\ s-j_{sa}^{ik}\right)\text{[illegible]}}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)\text{[illegible]}}{(D+s-\boldsymbol{n}\ \text{[illegible]})!\cdot\text{[illegible]}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1$ [illegible] j_{sa} [illegible] $- 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\}$ [illegible]

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z$ [illegible] $1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-k+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(D+j_{sa}-\boldsymbol{l_{sa}}-s\right)!}{\left(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}\right)!\cdot\left(\boldsymbol{n}+j_{sa}-j^{sa}-s\right)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{\left(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1\right)}^{\left(n_i-j_{ik}+1\right)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i-n_{ik}-1\right)!}{\left(j_{ik}-2\right)!\cdot\left(n_i-n_{ik}-j_{ik}+1\right)!}\cdot$$

$$\frac{\left(n_{ik}-n_{sa}-1\right)!}{\left(j^{sa}-j_{ik}-1\right)!\cdot\left(n_{ik}+j_{ik}-n_{sa}-j^{sa}\right)!}\cdot$$

$$\frac{\left(n_{sa}-1\right)!}{\left(n_{sa}+j^{sa}-\boldsymbol{n}-1\right)!\cdot\left(\boldsymbol{n}-j^{sa}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{\left(D+j_{sa}-\boldsymbol{l_{sa}}-s\right)!}{\left(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}\right)!\cdot\left(\boldsymbol{n}-s\right)!}\right)+$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_{ik}}-k+1\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{\left(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1\right)}^{\left(n_i-j_{ik}+1\right)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i-n_{ik}-1\right)!}{\left(j_{ik}-2\right)!\cdot\left(n_i-n_{ik}-j_{ik}+1\right)!}\cdot$$

$$\frac{\left(n_{ik}-n_{sa}-1\right)!}{\left(j^{sa}-j_{ik}-1\right)!\cdot\left(n_{ik}+j_{ik}-n_{sa}-j^{sa}\right)!}\cdot$$

$$\frac{\left(n_{sa}-1\right)!}{\left(n_{sa}+j^{sa}-\boldsymbol{n}-1\right)!\cdot\left(\boldsymbol{n}-j^{sa}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - k + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible])!}$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{[illegible]+j_{sa}[illegible]j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}[illegible]\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+[illegible]}^{n} \sum_{[illegible]-j_{ik}+1)}^{(n_i-j_{ik}[illegible])} \sum_{[illegible]=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-[illegible]\mathbb{k}}$$

$$\frac{(n_i - n_{ik} [illegible]}{[illegible] - 2)! [illegible] - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{([illegible] - n_{sa} [illegible] 1)!}{([illegible] - j_{ik} - 1)! [illegible] n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=[illegible]}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{([illegible]\,j_{ik}+1)}^{(\ )}\sum_{n_{sa}=[illegible]+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}+1 > \boldsymbol{l_s} \wedge [illegible]+j_{sa}^{ik}-j_{sa} > [illegible]$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}^{i}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\ldots,j_{sa}^{ik},\mathbb{k},j_{sa},\ldots,j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

Z [illegible]

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\left.\frac{(D+\text{[illegible]}-\boldsymbol{l_{sa}}\text{[illegible]})!}{(D\text{[illegible]}j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}\text{[illegible]})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{\text{[illegible]}\boldsymbol{l_{ik}}\text{[illegible]}\boldsymbol{n}-\boldsymbol{l_{sa}}\text{[illegible]}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k={}_{i}\boldsymbol{l}}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)}\;\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\ {}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-\ {}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-\text{[illegible]}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-\text{[illegible]}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s\text{[illegible]})}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\text{[illegible]}+j_{sa}-j^{sa}\text{[illegible]})!}\Bigg)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+\text{[illegible]}-j_{sa})}^{(\ )}\ \sum_{j^{s}\text{[illegible]}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{\text{[illegible]}=\boldsymbol{n}+\mathbb{k}}^{n\text{[illegible]}}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(\text{[illegible]}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(\text{[illegible]}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \text{[illegible]} n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq \text{[illegible]}^{a}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik} \text{[illegible]} j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}[illegible]}\right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{[illegible]}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) +$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{\left(j_{ik}=\text{[illegible]}\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}\text{[illegible]}-j_{sa}\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\text{[illegible]}j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\text{[illegible]}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}\text{[illegible]})}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_i\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-1)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-1)!}-$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z\colon z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},[illegible]}^{[illegible]D} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{([illegible]=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-1)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-1)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+j_{sa}-D-s}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}\geq 0\wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=j_{sa}} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j_s}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}-j_{ik}-k)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} \le D-\boldsymbol{n}+1 \wedge$

$j_{sa}-j_{ik} \le j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa} \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i} \le D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-\text{[illegible]}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}\text{[illegible]}+\text{[illegible]}-j_{ik})}^{(n_i\text{[illegible]}+1)}$$

$$\sum_{n_{ik}=\text{[illegible]}j_{sa}\text{[illegible]}}\sum_{(n_{sa}=n\text{[illegible]}j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j\text{[illegible]}+j_{sa}-\text{[illegible]}-s-j_{sa}^{ik}\text{[illegible]})!}{(n_i-\boldsymbol{n}-I)!\cdot(\text{[illegible]}+j_{ik}+\text{[illegible]}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{\text{[illegible]}-k-1)!}{\text{[illegible]}+j_{sa}^{ik}-j\text{[illegible]}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\text{[illegible]}-\boldsymbol{l_i})!}{(D+j^{sa}+\text{[illegible]}-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}$ [illegible] $D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq$ [illegible]$^{sa}+j_{sa}^{ik}$ [illegible]$_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq$ [illegible]$^{sa}\leq\boldsymbol{n}+$ [illegible]

$\boldsymbol{l_{ik}}-j$ [illegible] $+1=\boldsymbol{l_s}\wedge\boldsymbol{l_s}$ [illegible] $+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s$ [illegible] $\boldsymbol{n}\wedge$

$D\geq$ [illegible] $n\wedge I=\mathbb{k}\geq0\wedge$

$j_{sa}\leq j_{sa}^{i}-$ [illegible] $\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

[illegible] $j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq4\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z:z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;\;)} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-
$$

$$
\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\text{[illegible]})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}\text{[illegible]}s-j_{sa}^{ik}\right)\text{[illegible]}}\cdot$$

$$\frac{(\boldsymbol{l_s}-\text{[illegible]}-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}\text{[illegible]}k\right)!\cdot\left(\text{[illegible]}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}+\text{[illegible]}-j^{sa}-s)!}\cdot$$

$$\sum_{k\text{[illegible]}}\ \sum_{(j_{ik}=j_{sa}^{ik})}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\text{[illegible]}}^{n}\ \sum_{(n_{ik}=\text{[illegible]}j_{ik}+1)}^{(\text{[illegible]})}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i\text{[illegible]}j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\text{[illegible]}\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq \text{[illegible]} - \boldsymbol{n} + \text{[illegible]}$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - \text{[illegible]} \wedge$

$j_{ik} + j_{sa} - \text{[illegible]} \leq j^{sa} \leq \text{[illegible]} + j_{sa} - s \wedge$

$\boldsymbol{l_{i}}\text{[illegible]} j_{sa}\text{[illegible]} 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n}\text{[illegible]}\boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \text{[illegible]} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}}^{(\;)}$ [illegible]

$\dfrac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}}$ [illegible] $s-j_{sa}^{ik})$ [illegible]

$\dfrac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}}$ [illegible] $-1)!$ ·

$\dfrac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-}$ [illegible] $)!\cdot(\boldsymbol{n}$ [illegible] $-j^{sa}-s)!$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}$ [illegible] $\wedge \boldsymbol{l_i}$ [illegible] $-s>$ [illegible] $\wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_s}$ [illegible] $-\boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq$ [illegible] $-1 \wedge j_{sa}^{ik}$ [illegible] $j_{sa}-1 \wedge j_{sa}^{s} \leq$ [illegible] $\wedge$

$\boldsymbol{s}$ [illegible] $j_{sa}^{s},\cdots,j_{sa}^{ik},$ [illegible] $j_{sa},\cdots,$ [illegible] $\wedge$

$s \geq$ [illegible] $\wedge \boldsymbol{s}=s+\Bbbk$ [illegible]

[illegible] $_z: z=$ [illegible] $\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - \text{[illegible]}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - \text{[illegible]}^{sa} - s)!}$$

$$\sum_{k=\text{[illegible]}} \sum_{(j_{ik} = j_{sa}^{ik})}^{(\ )} \sum_{j^{sa} = \text{[illegible]}}$$

$$\sum_{n_i = \text{[illegible]} + \Bbbk}^{n} \sum_{(n_{ik} = \text{[illegible]} - j_{ik} + 1)}^{\text{[illegible]} j_{ik} + 1)} \sum_{n_{sa} = \text{[illegible]} - j^{sa} + 1}^{\text{[illegible]} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{(n_i - \text{[illegible]}_{k} - 1)!}{(j_{ik} - \text{[illegible]})! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_{ik} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D - s)}^{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - k - j_{sa} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{s} - j_{sa}^{ik}} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i} \leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}=j_{sa}-1 \wedge j_s^s \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon\{j_s^s,\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s>4 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j^{ik}_{sa}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j^{ik}_{sa}+1}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{\left(j_{ik}=j^{ik}_{sa}\right)}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-\text{[illegible]})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-\text{[illegible]}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(\text{[illegible]}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}\text{[illegible]})!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-\text{[illegible]}s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=j^{s\text{[illegible]}ik}-j_{sa})}^{(\ )}\ \sum_{\text{[illegible]}-D-s}^{\text{[illegible]}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{\text{[illegible]}=\boldsymbol{n}+\mathbb{k}}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n\text{[illegible]}j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(\text{[illegible]}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\text{[illegible]}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq\text{[illegible]}a+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}\text{[illegible]}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 4 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j_{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}\text{[illegible]}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\text{[illegible]}-j_{sa})!}{(j_{ik}+\text{[illegible]}_{sa}\text{[illegible]}j^{sa}-\boldsymbol{l_{ik}}\text{[illegible]})!\cdot(j^{sa}\text{[illegible]}-j_{sa})!}\cdot$$

$$\frac{(\text{[illegible]}+j_{sa}\text{[illegible]}-s)!}{(\text{[illegible]}+j^{sa}-\boldsymbol{n}\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}_{sa}-j^{sa}-s)!}+$$

$$\sum \; \sum_{\text{[illegible]}(j_{ik}=j_{sa}^{ik})}^{\text{[illegible]})} \; \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-\text{[illegible]}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-\text{[illegible]})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\text{[illegible]}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-\text{[illegible]})!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+\text{[illegible]}-j^{sa}-s-\text{[illegible]})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-\text{[illegible]})!}{(\boldsymbol{l_s}+j_{sa}^{ik}-\text{[illegible]}j_{ik}\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\text{[illegible]})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]}-j_{sa})!\cdot(\text{[illegible]}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+\text{[illegible]}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l}\text{[illegible]} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-\text{[illegible]} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l}\text{[illegible]}\, j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+\text{[illegible]}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq \text{[illegible]}+\boldsymbol{l_s}+j_{sa}-\text{[illegible]} \wedge$

$D \geq \boldsymbol{n} < n \wedge I\text{[illegible]}\mathbb{k} \geq 0 \wedge$

$j_{sa}\text{[illegible]}_{a}-1 \wedge j_{sa}^{ik}=\text{[illegible]}-1 \wedge j_{sa} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon\{j_{sa}^{s},\cdots,\text{[illegible]},\mathbb{k},j_{sa},\cdots,\text{[illegible]}\} \wedge$

$s \geq \text{[illegible]}\, \boldsymbol{s}=s+\text{[illegible]}$

$\mathbb{k}_z\colon z=1\text{[illegible]}$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\cdots}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\cdots j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_i}+j_{sa}\cdots-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n\cdots j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\quad)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-\ {}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{[illegible]})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot ([illegible] - j^{sa})!}$$

$$\frac{(\boldsymbol{l_{sa}} + [illegible]^{ik} - \boldsymbol{l_{ik}} - [illegible])}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} [illegible] \boldsymbol{l_{ik}})! \cdot (j^{sa} - [illegible])!} \cdot$$

$$\frac{([illegible] \boldsymbol{l_{sa}} - s[illegible]}{([illegible] j^{sa} - \boldsymbol{n} - [illegible])! \cdot ([illegible] - [illegible]^{sa} - s)!} -$$

$$\sum_{[illegible]=1}^{[illegible]+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}[illegible]-j_{sa})}^{(\ )} \sum_{j^{s[illegible]}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$[illegible] n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - [illegible]\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - [illegible] - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - [illegible])!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot ([illegible] + j_{sa} - j^{[illegible]} - s)!} +$$

$$\sum_{k=[illegible]}^{[illegible]} \sum_{([illegible]=j_{sa}^{ik})}^{([illegible])} \sum_{j^{sa}=[illegible]-D-s}^{j_{sa}-[illegible]_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=[illegible]-\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}[illegible])} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{s} - 1 \wedge j_{sa}^{ik} = j_{sa}^{i} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, j_{sa}^{i}, \cdots, j_{sa}^{l}\right\} \wedge$

$s \geq 4 \wedge S = s + \Bbbk \wedge$

$\Bbbk_z: z = 1$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l}_{i}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\;_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-\;_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}\ldots}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_s}+j_{sa}^{ik}\ldots)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+\ldots-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}\ldots)!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{\ldots 1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ _{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$\Big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_s} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_s} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk \geq$ [illegible] $\wedge$

$j_{sa} \leq j_{sa}^{i}-$ [illegible] $\wedge j_{sa}^{ik}=j_{sa}^{s}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s}$ [illegible] $, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s}=$ [illegible] $+\Bbbk \wedge$

[illegible] $\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+\ldots)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l}_i - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + s - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l}_{ik} \wedge \boldsymbol{l}_i + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq \boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)\wedge$

$D\geq \boldsymbol{n}<n\wedge I=\mathbb{k}\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge \boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-k)}\sum_{j^{sa}=j_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{l_i}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk\geq 0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 4\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\;\sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D\cdots}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\cdots+1}^{n_{ik}+\cdots-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D\cdots s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}^{ik}-\boldsymbol{n} < \boldsymbol{l_{ik}} \leq D+\boldsymbol{l_s}+j_{sa}^{ik}-\boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} = j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s+\mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \Rightarrow$

$${}_{\mathbb{k}_z}S_{j_{ik},j^{sa}}^{DOST} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_il}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \dots)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} \dots)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - \dots s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{s}\dots-j_{sa})}^{(\ )} \sum_{\dots-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{\dots=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(\boldsymbol{n} \dots + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(\dots - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \dots n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq \dots + j_{sa}^{ik} - j_{sa} \wedge$

$\dots j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j^{sa})!} \cdot
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})! \cdot (\boldsymbol{n}+j_{sa}-j^{sa}-s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j^{sa})!} \cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{[illegible]}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}\,[illegible]\,j_{ik})}^{(n_i-[illegible]+1)}$$

$$\sum_{n_{ik}=n_{is}[illegible]j_{sa}^{s}-j_{sa}}^{[illegible]}\ \sum_{([illegible]=n_{ik}[illegible]-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}[illegible]j_{sa}-[illegible]-s-j_{sa}^{ik}-I\right)!}{(n[illegible]-\boldsymbol{n}-I)!\cdot\left([illegible]j_{ik}+j_{sa}[illegible]-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{([illegible]-k-1)!}{\left([illegible]+j_{sa}^{ik}-[illegible]-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+[illegible]-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}[illegible]D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j[illegible]+j_{sa}^{ik}-[illegible]\land$

$j_{ik}[illegible]j_{sa}-j_{sa}^{ik}\leq j[illegible]\leq\boldsymbol{n}+j[illegible]\land$

$\boldsymbol{l_{ik}}-j_{sa}[illegible]1>\boldsymbol{l_s}\land\boldsymbol{l_{sa}}[illegible]j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\land$

$D+j_{sa}^{ik}-\boldsymbol{n}[illegible]\leq[illegible]\boldsymbol{l_s}+j_{sa}^{ik}-\boldsymbol{n}-1\big)\lor$

$(D[illegible]\boldsymbol{n}[illegible]\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq[illegible]{}^{a}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\land$

$D+j_{sa}^{ik}-\boldsymbol{n}<\boldsymbol{l_{ik}}\leq D+\boldsymbol{l_s}+j_{sa}^{ik}-\boldsymbol{n}-1\land$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa})\lor$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$((\dots < n \wedge \boldsymbol{l_s} \le D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \big\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\big\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\big(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\big)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \big(j_{ik} - j_{sa}^{ik} - 1\big)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-j_{sa}+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{\text{[illegible]}})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}\text{[illegible]}{}_{i}\boldsymbol{l}-j_{sa}^{\text{[illegible]}})\text{[illegible]}}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\text{[illegible]}\boldsymbol{l_{sa}}-s)\text{[illegible]}}{(\text{[illegible]}\,j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\text{[illegible]}-s)!}-$$

$$\sum_{\text{[illegible]}1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\text{[illegible]}_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-\text{[illegible]})}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$((D\text{[illegible]}\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk \geq 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \land$

$s \geq 4 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$$_{\Bbbk_z}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \mathbf{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l_s}+s-\mathbf{n}-\mathbf{l_i}} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\;)} \sum_{j^{sa}=\mathbf{l_i}+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{is}=\mathbf{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{ik}_{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - j^{ik}_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j^{ik}_{sa})!} \cdot$$

$$\frac{(\mathbf{l_s} - k - 1)!}{(\mathbf{l_s} + j^{ik}_{sa} - j_{ik} - k)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l_i})!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l_i} - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \mathbf{n} < n \wedge \mathbf{l_s} \leq D - \mathbf{n} + 1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l_{ik}} - j^{ik}_{sa} + 1 = \mathbf{l_s} \wedge \mathbf{l_{sa}} + j^{ik}_{sa} - j_{sa} > \mathbf{l_{ik}} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l_{sa}} \leq D + \mathbf{l_{ik}} + j_{sa} - \mathbf{n} - j^{ik}_{sa} \wedge$

$D + s - \mathbf{n} < \mathbf{l_i} \leq D + \mathbf{l_{sa}} + s - \mathbf{n} - j_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l_s} \leq D - \mathbf{n} + 1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l_{ik}} - j^{ik}_{sa} + 1 = \mathbf{l_s} \wedge \mathbf{l_{sa}} + j^{ik}_{sa} - j_{sa} > \mathbf{l_{ik}} \wedge \mathbf{l_i} + j_{sa} - s = \mathbf{l_{sa}} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l_{sa}} \leq D + \mathbf{l_s} + j_{sa} - \mathbf{n} - 1)\big) \wedge$

$D \geq \mathbf{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j^{i}_{sa} - 1 \wedge j^{ik}_{sa} = j_{sa} - 1 \wedge j^{s}_{sa} \leq j^{ik}_{sa} - 1 \wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\land$

$s\geq 4\land\boldsymbol{s}=s+\mathbb{k}\land$

$\mathbb{k}_z\colon z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-\text{[illegible]})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-\text{[illegible]}-s)!}\cdot$$

$$\sum_{k=\,_i\boldsymbol{l}}\;\sum_{(j_{ik}\text{[illegible]})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-\text{[illegible]}}^{\text{[illegible]}+1}$$

$$\sum_{n_i=\text{[illegible]}}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\text{[illegible]}j_{ik}+1)}^{(n_i\text{[illegible]})}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{\text{[illegible]}j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-\text{[illegible]}-1)!}{(j_{ik}-\text{[illegible]})!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n\text{[illegible]}-n_{sa}-1)!}{(\text{[illegible]}^{sa}-j_{ik}-\text{[illegible]})!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\ldots D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D\ldots}^{\ldots+1}$$

$$\sum_{n_i=\boldsymbol{n}\ldots}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\ldots j_{ik}+1)}^{(n_i-j\ldots)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\cdots D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\cdots D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)}\ \sum_{(j_{ik}=[illegible]+\boldsymbol{n}-D)}^{[illegible]}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=[illegible]-\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{is}=\mathbf{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\dots)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\mathbf{n}-I)!\cdot(\mathbf{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\mathbf{l_s}-k-1)!}{(\mathbf{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\mathbf{l_i})!}{(D+j^{sa}+s-\mathbf{n}-\mathbf{l_i}-j_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$D\ge\mathbf{n}<n\wedge\mathbf{l_s}\le D-\mathbf{n}+1\wedge$

$j_{sa}^{ik}\le j_{ik}\le j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\le j^{sa}\le\mathbf{n}+j_{sa}-s\wedge$

$\mathbf{l_{ik}}-j_{sa}^{ik}+1>\mathbf{l_s}\wedge\mathbf{l_{sa}}+j_{sa}^{ik}-j_{sa}\le\mathbf{l_{ik}}\wedge\mathbf{l_i}+j_{sa}-s=\mathbf{l_{sa}}\wedge$

$D+j_{sa}-\mathbf{n}<\mathbf{l_{sa}}\le D+s+j_{sa}-\mathbf{n}-1\wedge$

$D\ge\mathbf{n}<n\wedge I=\Bbbk\ge 0\wedge$

$j_{sa}\le j_{sa}^{i}-1\wedge j_{sa}^{ik}\le j_{sa}-1\wedge j_{sa}^{s}\le j_{sa}^{ik}-1\wedge$

$\mathbf{s}=(j_{sa}^{s},\cdots,j_{sa}^{ik},j_{sa},\cdots,j_{sa}^{i})\wedge$

$s\ge 3\wedge\mathbf{s}=s+\Bbbk\wedge$

$\Bbbk_z: z=1\Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{_i\mathbf{l}-1}\sum_{(j_{ik}=\mathbf{l_{ik}}+\mathbf{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\mathbf{l_i}+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{[illegible]}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}[illegible]D)}^{([illegible]k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}[illegible]j_{sa}^{ik}+2}^{[illegible]j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=[illegible]\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1\right)}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{[illegible]})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot([illegible]-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}\ [illegible]\ _i\boldsymbol{l}-j_{sa}[illegible])}{(\boldsymbol{l_{ik}}-j_{ik}-\ _i\boldsymbol{l}+[illegible])!\cdot(j_{ik}-j_{sa}^{ik}[illegible])!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\ [illegible]-j_{sa})}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}[illegible])!\cdot(j^{sa}[illegible]-j_{sa})!}\cdot$$

$$\frac{([illegible]+j_{sa}-[illegible]-s)!}{([illegible]+j^{sa}-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}[illegible]_{a}-j^{sa}-s)!}-$$

$$\sum_{[illegible]}^{D+\boldsymbol{l_s}+j_{sa}[illegible]\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}[illegible]j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 4 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-k+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{[illegible]}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-[illegible]+1)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\text{[illegible]})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\text{[illegible]}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\text{[illegible]}\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+\text{[illegible]}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-\text{[illegible]})!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-\text{[illegible]}\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l}\text{[illegible]})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]}-j_{sa})!\cdot(\text{[illegible]}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - \text{[illegible]} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \text{[illegible]} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l}\text{[illegible]} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j\text{[illegible]} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \text{[illegible]} I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j\text{[illegible]} < j_{sa} - \text{[illegible]} \wedge j_{sa}^{s} \text{[illegible]} j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{s}\text{[illegible]}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} \text{[illegible]} s + \Bbbk \wedge$

$\Bbbk_z: z \text{[illegible]} 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\text{[illegible]})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{i}\text{[illegible]}}-k-j_{sa}\text{[illegible]})!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}-\text{[illegible]})!}\cdot$$

$$\left.\frac{(D\text{[illegible]}_{sa}\text{[illegible]}\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D\text{[illegible]}j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{s}\text{[illegible]}})!\cdot(\boldsymbol{n}\text{[illegible]}-s)!}\right)+$$

$$\left(\sum_{k=\text{[illegible]}}^{D+\boldsymbol{l}_{\boldsymbol{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}}-j_{sa}^{ik}+\text{[illegible]}}\ \sum_{(j_{ik}=\boldsymbol{l}_{\boldsymbol{s}\text{[illegible]}}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{i\text{[illegible]}}-1)}\ \sum_{j^{sa}=\boldsymbol{l}_{\boldsymbol{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l}_{\boldsymbol{s}}+j_{sa}-k}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\text{[illegible]}}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(\text{[illegible]}j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l}_{\boldsymbol{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{\boldsymbol{sa}}+j_{sa}^{ik}-\boldsymbol{l}_{\boldsymbol{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l}_{\boldsymbol{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l}_{\boldsymbol{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l}_{\boldsymbol{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=n_i+j^{sa}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\ldots-k-1)!}{(\ldots+j_{sa}^{ik}-j\ldots-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}<j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1<j^{sa}\leq D+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}^{s}=j_{sa}^{ik}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 2\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j^{sa}-\boldsymbol{l_{sa}}-1)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{\boldsymbol{l_{ik}}+j_{sa}^{ik}-\boldsymbol{l_{sa}}-j_{sa}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-[illegible]+1}\ \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \text{[illegible]}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D\text{[illegible]}\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{\text{[illegible]}=j_{ik}+\text{[illegible]}-j_{sa}^{ik}}^{\text{[illegible]}}$$

$$\sum_{\text{[illegible]}\boldsymbol{n}+\mathbb{k}}^{\text{[illegible]}} \sum_{\left(n_{is}\text{[illegible]}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{\left(n_i-j_s+\text{[illegible]}\right)}$$

$$\sum_{n_{ik}=n\text{[illegible]}j_{sa}^{s}-j_{sa}^{ik}}^{\text{[illegible]}} \sum_{\left(\text{[illegible]}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}\right)}^{\text{[illegible]}}$$

$$\frac{\left(\text{[illegible]} + j_{ik} + j_{sa} - \text{[illegible]}^{sa} - s - j_{sa}^{ik} - I\right)!}{\text{[illegible]} - \boldsymbol{n} - \text{[illegible]} \cdot \left(\boldsymbol{n} + \text{[illegible]} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\text{[illegible]}\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\big)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + \text{[illegible]} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \text{[illegible]} D - \text{[illegible]} 1 \wedge$

$j_{sa}^{ik} + \text{[illegible]} j_{ik} \leq j^{sa} + \text{[illegible]} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - \text{[illegible]} + 1 \leq \text{[illegible]} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\text{[illegible]} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}\big) \vee$

$(D \geq \boldsymbol{n} < \text{[illegible]} \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}\text{[illegible]} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}\text{[illegible]}j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_s}-s)!}{(D+j^{sa}-\mathbf{n}-\boldsymbol{l_s})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{\ldots+1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\mathbf{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{is}=\mathbf{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-I\right)!}{(n_i-\mathbf{n}-I)!\cdot\left(\mathbf{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\mathbf{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\mathbf{n}<n\wedge\boldsymbol{l_s}>D-\mathbf{n}+1\wedge$

$j^{ik}_{sa}+1\leq j_{ik}\leq j^{sa}+j^{ik}_{sa}-j_{sa}-1\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}+j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$${}_{fz}S^{DO[illegible]}_{j_{ik},j^{s[illegible]}}[illegible]\sum_{[illegible]=1}^{D[illegible]1}\sum_{(j_{ik}=j^{s[illegible]}+j_{sa}^{ik}-j_{sa})}^{([illegible])}\sum_{j^{sa}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}-D-1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-\cdots)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+\cdots-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-1)!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\cdots+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_i} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} = j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z: z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \text{[illegible]})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} \text{[illegible]})!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - \text{[illegible]} s)!} -$$

$$\sum_{\text{[illegible]}=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\text{[illegible]} j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{\text{[illegible]} a - j^{ik}_{sa}}$$

$$\sum_{\text{[illegible]}=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(\boldsymbol{n} \text{[illegible]} j_{ik} + j_{sa} - j^{sa} - s - j^{ik}_{sa} - I)!}{(\text{[illegible]} - I)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j^{ik}_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j^{ik}_{sa} - j_{ik} - k)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \text{[illegible]} n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} + 1 \le j\text{[illegible]} \le j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j\text{[illegible]} j^{ik}_{sa} \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \le j^{i}_{sa} - 1 \wedge j^{ik}_{sa} < j_{sa} - 1 \wedge j^{s}_{sa} \le j^{ik}_{sa} - 1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-k}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}+\Bbbk-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_i}-k-j_{sa}^{ik})!}{(\boldsymbol{l_i}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-
$$

$$
\sum_{k=1}^{D+\boldsymbol{l_s}-j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+j_{sa}-k}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
$$

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}
$$

$$
\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot
$$

$$
\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s+\mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}-j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-k-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\text{[illegible]})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}\text{[illegible]}s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-\text{[illegible]}-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(\text{[illegible]}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}-j^{sa}-s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}\text{[illegible]}\wedge \boldsymbol{l_i}\text{[illegible]}-s=\text{[illegible]} \wedge$

$D \ge \boldsymbol{n} < n \wedge I=\Bbbk>0\text{[illegible]}$

$j_{sa} \le j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge \text{[illegible]} \le j_{sa}^{ik}-1\text{[illegible]}$

$\boldsymbol{s}:\{j_s^s,\cdots,j_{sa}^{ik},\cdots,\Bbbk,\text{[illegible]},\cdots,j_{sa}^{i}\} \wedge$

$s\text{[illegible]}5 \wedge \boldsymbol{s}=s\text{[illegible]}\Bbbk \wedge$

$\Bbbk_z\text{[illegible]}=1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-[illegible])}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+[illegible]}^{[illegible]s+1}$$

$$\sum_{n_i=[illegible]\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}[illegible]j_{ik}+1)}^{(n_i[illegible]1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{[illegible]j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-[illegible]-1)!}{(j_{ik}-[illegible])!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-[illegible]-\mathbb{k}-1)!}{(j^{sa}[illegible]j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa}+1 \leq j_{ik} \leq j^{sa}+j^{ik}_{sa}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j^{i}_{sa}-1 \wedge j^{ik}_{sa} < j_{sa}-1 \wedge j^{s}_{sa} < j^{ik}_{sa}-1$

$\boldsymbol{s}\colon\left\{j^{s}_{sa},\cdots,j^{ik}_{sa},\cdots,\Bbbk,j_{sa},\cdots,j^{i}_{sa}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z\colon z=1 \Rightarrow$

$$S_{j}^{DO} = \sum_{k=1}^{D-\boldsymbol{n}+1}\ \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j^{ik}_{sa}-D-1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s-1)}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_s+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_s^s \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_s^s, \cdots, j_{sa}^{ik}, \cdots, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{\left(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1\right)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\;\sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-\text{[illegible]})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\;\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+\text{[illegible]}}^{\text{[illegible]}-k\text{[illegible]}}$$

$$\sum_{n_i=\text{[illegible]}\Bbbk}^{n}\;\sum_{(n_{ik}=\boldsymbol{n}+\text{[illegible]}j_{ik}+1)}^{(n_i\text{[illegible]}1)}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{\text{[illegible]}j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-\text{[illegible]}-1)!}{(j_{ik}-\text{[illegible]})!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-\text{[illegible]}-\Bbbk-1)!}{(j^{sa}\text{[illegible]}j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}^{s}, \cdots, j_{sa}^{i}\}$

$s \geq 5 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_s}+\boldsymbol{n}+j_{sa}^{ik}-D-1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+\cdots-D-j_{sa})}^{(\cdots+j_{sa}^{ik}-k)}\sum_{j^{sa}=\cdots a-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\cdots+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}\cdots)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-\cdots-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\mathbf{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\dots)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\mathbf{n}-I)!\cdot\left(\mathbf{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\mathbf{n}-j_{sa}-\boldsymbol{l_i})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$\Big((D \geq \mathbf{n} < n \wedge \boldsymbol{l_s} > D-\mathbf{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}) \vee$

$(D \geq \mathbf{n} < n \wedge \boldsymbol{l_s} > D-\mathbf{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \mathbf{n} < n \wedge \boldsymbol{l_s} > D-\mathbf{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \mathbf{n} < n \wedge I=\Bbbk>0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$ {}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot $$

$$ \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot $$

$$ \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot $$

$$ \frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot $$

$$ \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} - $$

$$ \sum_{k=1}^{D+\boldsymbol{l_s}-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k} $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} $$

$$ \sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )} $$

$$ \frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot $$

$$ \frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot $$

$$ \frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} $$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} + 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \le j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \ge 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \Rightarrow$

$$S_j^{DOS,k} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{n}+j_{sa}-s}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=n_i+j^{sa}-j_{ik})}^{(n_i-j_{ik}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(D+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\Big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\Big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-\boldsymbol{n}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-
$$

$$
\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
$$

$$
\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\;)}
$$

$$
\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot
$$

$$
\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$
\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}
$$

$\big((D \geq \mathbf{n} < n \land \mathbf{l_s} > D - \mathbf{n} + 1 \land$

$j^{ik}_{sa} + 1 \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \land$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \land$

$\mathbf{l_{ik}} - j^{ik}_{sa} + 1 = \mathbf{l_s} \land \mathbf{l_{sa}} + j^{ik}_{sa} - j_{sa} = \mathbf{l_{ik}} \land \mathbf{l_i} + j_{sa} - s > \mathbf{l_{sa}}) \lor$

$(D \geq \mathbf{n} < n \land \mathbf{l_s} > D - \mathbf{n} + 1 \land$

$j^{ik}_{sa} + 1 \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \land$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \land$

$\mathbf{l_{ik}} - j^{ik}_{sa} + 1 > \mathbf{l_s} \land \mathbf{l_{sa}} + j^{ik}_{sa} - j_{sa} = \mathbf{l_{ik}} \land \mathbf{l_i} + j_{sa} - s = \mathbf{l_{sa}}\big) \land$

$D \geq \mathbf{n} < n \land I = \Bbbk > 0 \land$

$j_{sa} \leq j^{i}_{sa} - 1 \land j^{ik}_{sa} < j_{sa} - 1 \land j^{s}_{sa} \leq j^{ik}_{sa} - 1 \land$

$\mathbf{s}: \{j^{s}_{sa}, \cdots, j^{ik}_{sa}, \cdots, \Bbbk, j_{sa}, \cdots, j^{i}_{sa}\} \land$

$s \geq 5 \land \mathbf{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOS}_{j_{ik},j^{sa}} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=\mathbf{l_{ik}}+\mathbf{n}-D)}^{(\mathbf{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
\sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot
$$

$$
\frac{(\mathbf{l_{ik}} - k - j^{ik}_{sa})!}{(\mathbf{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \mathbf{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-1)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik}+1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z: z=1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-[illegible]}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}[illegible]-j_{ik})}^{(n_i[illegible]+1)}$$

$$\sum_{n_{ik}=n[illegible]j_{sa}^{s}-j[illegible]} \sum_{[illegible]=n_{i}[illegible]_{ik}-j^{sa}-\mathbb{k})}^{(\;)}$$

$$\frac{\left(n_i + j[illegible] + j_{sa} - j[illegible] - s - j_{sa}^{ik} - I\right)!}{(n[illegible] - \boldsymbol{n} - I)! \cdot \left([illegible] + j_{ik} + j[illegible] - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{([illegible] - k - 1)!}{\left([illegible] + j_{sa}^{ik} - j[illegible] - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + [illegible] - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\Big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}[illegible] D - \boldsymbol{n} + 1 \wedge$

$j[illegible] + 1 \leq j_{ik}[illegible] j^{sa} + j[illegible] - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq [illegible] \leq \boldsymbol{n} + [illegible] \wedge$

$\boldsymbol{l_{ik}} - j[illegible] + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}[illegible] j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n[illegible] \boldsymbol{l_s} > D [illegible] \boldsymbol{n} + 1 \wedge$

$j_{s}^{ik}[illegible] 1 [illegible] j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - [illegible] \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} [illegible] j_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}})\Big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
\frac{(\boldsymbol{l_i}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_i}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible]}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D [illegible]\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{[illegible]=j_{ik}+[illegible]-j_{sa}^{ik}}$$

$$\sum_{[illegible]=\boldsymbol{n}+\mathbb{k}}^{[illegible]} \sum_{(n_{is} [illegible] +\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s [illegible]}$$

$$\sum_{n_{ik}=[illegible] j_{sa}^{s}-j_{sa}^{ik}} \sum_{([illegible]=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{\left([illegible] + j_{ik} + j_{sa} - [illegible]^{sa} - s - j_{sa}^{ik} - I\right)!}{[illegible] - \boldsymbol{n} - [illegible]! \cdot \left(\boldsymbol{n} + j [illegible] + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{[illegible]\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\big)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j [illegible] s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}$ [illegible] $> D - \boldsymbol{n}$ [illegible] $1 \wedge$

$j_{sa}^{ik} +$ [illegible] $\leq j_{ik} \leq j^{sa} +$ [illegible] $- j_{sa} \wedge$

$j_{ik} + j_{sa} -$ [illegible] $\leq j^{sa} \leq$ [illegible] $+ j_{sa} - s \wedge$

$\boldsymbol{l_{ik}}$ [illegible] $+ 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} <$ [illegible] $\boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

[illegible] $j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq \boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}})\vee$

$(D\geq \boldsymbol{n}<n\wedge \boldsymbol{l_s}>D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}+1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq \boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}})\Big)\wedge$

$D\geq \boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 5\wedge \boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j_{sa}}^{oSD}=\sum_{k=1}^{D-\boldsymbol{n}+1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D-\mathbf{n}+1}\sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)}^{(\mathbf{l}_{ik}-k+1)}\sum_{j^{sa}=\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{\mathbf{l}_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-j^{sa}-n_{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\mathbf{l}_{ik}-k-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa})!}{(j_{ik}+\mathbf{l}_{sa}-j^{sa}-\mathbf{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l}_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\sum_{(n_{is}=\mathbf{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\mathbf{n}-I)!\cdot(\mathbf{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\mathbf{l}_i)!}{(D+j^{sa}+s-\mathbf{n}-\mathbf{l}_i-j_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} > D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge \mathbb{I} = \mathbb{k} > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z, z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-\boldsymbol{n}+1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+ \text{[illegible]} j_{sa}^{ik}-D-j_{sa} \text{[illegible]})}^{(\boldsymbol{l_{ik}}-k \text{[illegible]})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\text{[illegible]} 1}$$

$$\sum_{n_i=\boldsymbol{n} \text{[illegible]}}^{n} \sum_{\text{[illegible]} =\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n \text{[illegible]} j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa} \text{[illegible]})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa} \text{[illegible]} s-j_{sa}^{ik})\text{[illegible]}}\cdot$$

$$\frac{(\boldsymbol{l_s}-\text{[illegible]}-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik} \text{[illegible]} k)!\cdot(\text{[illegible]}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}-j^{sa}-s)\text{[illegible]}}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}$ [illegible] $\wedge$

$\boldsymbol{l_{sa}}\leq D+j_{sa}-\boldsymbol{n}\wedge\boldsymbol{l_i}\leq$ [illegible] $+s-\boldsymbol{n}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq$ [illegible] $-1\wedge j_{sa}^{ik}$ [illegible] $j_{sa}-1\wedge j_{sa}^{s}\leq$ [illegible] $\wedge$

$\boldsymbol{s}$ [illegible] $j_{sa}^{s},\cdots,j_{sa}^{ik}$, [illegible] $\mathbb{k},j_{sa},$ [illegible] $j_{sa}^{i}\}\wedge$

$s\geq$ [illegible] $\wedge\boldsymbol{s}=s+\mathbb{k}$ [illegible]

[illegible] $:z=$ [illegible] $\Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{[illegible]}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=[illegible]-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=[illegible]-\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\ {}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-\ {}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}$$

$$\frac{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j^{ik}_{sa}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ _{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{sa}^{ik}, j_{sa}}^{SD} = \sum_{k=1}^{I} \sum_{\left(j_{ik} = j_{sa}^{ik} + 1\right)}^{\left(\boldsymbol{l_s} + j_{sa}^{ik} - k\right)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{\boldsymbol{l_{sa}} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible]}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}[illegible]s-j_{sa}^{ik}\right)[illegible]}\cdot$$

$$\frac{(D-\boldsymbol{l_i})[illegible]}{(D+s-\boldsymbol{n}[illegible])!\cdot[illegible]-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 [illegible] j_{sa} = [illegible] - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, [illegible]\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z [illegible] 1 \Rightarrow$

$$[illegible]S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)+$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\text{[illegible]}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-\text{[illegible]})}^{(\ )}\sum_{j^{sa}=\text{[illegible]}+1}^{\boldsymbol{l_{ik}}+j\text{[illegible]}k-j_{sa}^{ik}+1}$$

$$\sum_{\text{[illegible]}=\boldsymbol{n}+\mathbb{k}}\sum_{(n_{i}\text{[illegible]}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s\text{[illegible]})}$$

$$\sum_{n_{ik}=\text{[illegible]}j_{sa}^{s}-j_{sa}^{ik}}\sum_{\text{[illegible]}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(\text{[illegible]}+j_{ik}+j_{sa}-\text{[illegible]}^{sa}-s-j_{sa}^{ik}-I)!}{\text{[illegible]}-\boldsymbol{n}-\text{[illegible]})!\cdot\left(\boldsymbol{n}+j\text{[illegible]}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\text{[illegible]}\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{s}\text{[illegible]}-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{j_{ik}=j^{sa}+j_{sa}\text{[illegible]}}^{(\text{[illegible]})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-\text{[illegible]}} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{\text{[illegible]}} \sum_{(n_{ik}=\text{[illegible]}+\mathbb{k}-j_{ik}+1)}^{(n_i-\text{[illegible]}1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(\text{[illegible]}n_i - n_{ik} - 1)!}{(\text{[illegible]}2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \text{[illegible]} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!}\right)$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-k-1)} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_s}+j_{sa}-k}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}}^{\ldots} \sum_{(j_{ik} \ldots j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible])}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-[illegible]\ s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-[illegible]-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left([illegible]-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l}[illegible])!\cdot(\boldsymbol{n}+[illegible]-j^{sa}-s)!}+$$

$$\sum_{k[illegible]} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=[illegible]}^{n} \sum_{(n_{ik}=[illegible]\,j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i[illegible]\,j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\ \mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}}$ [illegible] $D + j_{sa}$ [illegible]

$j_{sa}^{ik} \leq j_{ik}$ [illegible] $\leq j^{sa} + j_{sa}^{ik} -$ [illegible] $- 1 \wedge$

$j_{ik} + j_{sa} - j_s$[illegible] $+ 1 \leq j$[illegible] $\leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_i}$[illegible] j_{sa}[illegible] $1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D \geq \boldsymbol{n} < n$ [illegible] $I = \mathbb{k} > 0 \wedge$

j_{sa} [illegible] $j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1} \right.
$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \le D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} - j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z:z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}\right.
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\frac{(\boldsymbol{l_s}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k={}_i\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)+
$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\cdots+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{s}\cdots}\sum_{n_{sa}=n_{ik}+j_{ik}-\cdots\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+\cdots-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+\cdots-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(\cdots+s-\cdots-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}-j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}-1\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik}\wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\text{[illegible]}\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(\text{[illegible]}j_{sa}^{ik}-j_{sa})}^{(\text{[illegible]})} \sum_{\text{[illegible]}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-\text{[illegible]}+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\text{[illegible]}}^{n} \sum_{\text{[illegible]}=\boldsymbol{n}+\Bbbk-\text{[illegible]}+1)}^{\text{[illegible]}-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{\text{[illegible]}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2\text{[illegible]} \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(\text{[illegible]}n_{sa} - \Bbbk - 1)!}{(j^{sa} - \text{[illegible]} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}\ [illegible]\ j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=[illegible]+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\text{[illegible]})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\text{[illegible]}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{i}}\text{[illegible]}-k-j_{sa}\text{[illegible]})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+\text{[illegible]})!\cdot(j_{ik}-j_{sa}^{ik}\text{[illegible]})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\text{[illegible]}-j_{sa}\text{[illegible]})!}{(j_{ik}+\text{[illegible]}_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l_{ik}}\text{[illegible]})!\cdot(j^{sa}\text{[illegible]}-j_{sa})!}\cdot$$

$$\frac{(\text{[illegible]}+j_{sa}-\text{[illegible]}-s)!}{(D+j^{sa}-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}^{\text{[illegible]}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{l_i}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}^{i}-1 \wedge j_{sa} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq \Bbbk \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z: z=1 \wedge$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{j_{sa}=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{sa}+1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\mathbf{l}_{ik}+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\mathbf{l}_{s}+j_{sa}-k+1}^{\mathbf{l}_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\mathbf{l}_{ik}-k-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa})!}{(j_{ik}+\mathbf{l}_{sa}-j^{sa}-\mathbf{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l}_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\mathbf{l}_{ik}+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}-j_{sa}^{ik}+2}^{\mathbf{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{l}_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{(\mathbf{l}_{ik}-k-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D\cdots}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}\cdots-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}\cdots+1}^{n_{ik}+\cdots-j^{sa}-\Bbbk}$$

$$\frac{(n_i\cdots-1)!}{(\cdots 2)!\cdot(n_i\cdots-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-\cdots-\Bbbk\cdots)!}{(j^{sa}-j_{ik}-\cdots)!\cdot(n_{ik}\cdots-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}\cdots 1)!}{(n_{sa}+\cdots-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}\cdots j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}\cdots-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j\cdots-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D\cdots s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z\colon z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\right.$$

$$\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)+$$

$$\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=\ {}_{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-\ {}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\Bigg)\cdot$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\quad\sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D\,[illegible])}^{(\boldsymbol{l_{ik}}-k+1)}\quad\sum_{j^{sa}=j_{ik}+[illegible]-j_{sa}^{ik}}^{[illegible]}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{[illegible]}\quad\sum_{(n_{ik}=[illegible]\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-[illegible])}$$

$$\sum_{n_{ik}=[illegible]+j_{sa}^{s}-j_{sa}^{ik}}^{[illegible]}\quad\sum_{([illegible]=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{[illegible]}$$

$$\frac{\left([illegible]+j_{ik}+j_{sa}-[illegible]^{sa}-s-j_{sa}^{ik}-I\right)!}{([illegible]-\boldsymbol{n}[illegible])!\cdot\left(\boldsymbol{n}+[illegible]+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left([illegible]\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+[illegible]s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s}$ [illegible] $D-\boldsymbol{n}$ [illegible] $1 \wedge$

j_{sa}^{ik} [illegible] $\leq j^{sa}+j_{sa}^{ik}$ [illegible] $j_{sa}-1$ [illegible]

$j_{ik}+j_{sa}$ [illegible] $+1 \leq j^{s}$[illegible] $\leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}$ [illegible] $+1=$ [illegible] $\boldsymbol{sa}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-$ [illegible] $\boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

[illegible] $\geq \boldsymbol{n}$ [illegible] $\wedge I=\mathbb{k}>0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \right.
$$

$$
\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa})}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j^{ik}_{sa}-1)!}\cdot
$$

$$
\left. \frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!} \right) +
$$

$$
\left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j^{ik}_{sa}+1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j^{ik}_{sa}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right.
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{\left(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum^{\boldsymbol{l_{sa}}-\ _i\boldsymbol{l}+1}_{+\boldsymbol{n}-D}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\ -\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}\ )}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} \le D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \le j_{ik} \le j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \le j^{sa} \le \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \le D+j_{sa}^{ik}-\boldsymbol{n} \wedge \boldsymbol{l_i} \le D+s-\boldsymbol{n} \wedge$

$D \ge \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \le j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \le j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\}$

$s \ge 5 \wedge \boldsymbol{s}=s+\Bbbk$

$\Bbbk \wedge z=1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge$

$\boldsymbol{l_{ik}} \leq D+j_{sa}^{ik}-\boldsymbol{n} \wedge \boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{l} \leq j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{j_{sa}^{s},\cdots,j_{sa}^{l},\ldots,\Bbbk,j_{sa},\ldots,j_{sa}^{i}\} \wedge$

$s \geq I \wedge \boldsymbol{s} = s+\Bbbk$

$\Bbbk_z : z = \ldots \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-j_{sa}+1\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - \text{[illegible]})!}$$

$$\sum_{k=\text{[illegible]}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)} \sum_{\text{[illegible]}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\text{[illegible]}\, j_{ik}+1)}^{(\;)} \sum_{n_{sa}\text{[illegible]}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + \text{[illegible]} + j_{sa} \text{[illegible]}^{sa} - s \text{[illegible]} \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} \text{[illegible]} j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\text{[illegible]} - \boldsymbol{l_i})!}{(D \text{[illegible]} s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n}$ [illegible] $\land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$ [illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq$ [illegible] $^{sa} \leq \boldsymbol{n} + j_{sa}$ [illegible] $\land$

$\boldsymbol{l_{ik}} - j_{sa} +$ [illegible] $> \boldsymbol{l_s} \land$ [illegible] $+ j_{sa}^{ik} - j_{sa} >$ [illegible]

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})$ [illegible]

$(D \geq$ [illegible] $< n \land \boldsymbol{l_s} \leq D$ [illegible] $\boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq$ [illegible] $^{sa} + j_{sa}^{ik} -$ [illegible] $\land$

$j_{ik} +$ [illegible] $- j_{sa}^{ik} \leq$ [illegible] $\leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{sa}} - j_{sa} +$ [illegible] $> \boldsymbol{l_s} \land$

[illegible] $\leq D$ [illegible] $j_{sa} - \boldsymbol{n} \land \boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l}_{ik} - k - j_{sa}^{ik})!}{(\boldsymbol{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l}_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l}_{ik}-k+1)} \sum_{j^{sa}=\boldsymbol{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l}_{sa}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - k + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} + \text{[illegible]}\right.} \sum_{\left(j_{ik} \text{[illegible]} ik\right)}^{\text{[illegible]}} \sum_{j^{sa} \text{[illegible]} = j_{sa}}^{\text{[illegible]} sa - {}_{i}\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \text{[illegible]} ik}^{n} \sum_{\text{[illegible]} - j_{ik} + 1)}^{(n_i - j_{ik} \text{[illegible]})} \sum_{\text{[illegible]} = \boldsymbol{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - \text{[illegible]} \mathbb{k}}$$

$$\frac{(n_i - n_{ik} \text{[illegible]}}{\text{[illegible]} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - \text{[illegible]}_{sa} - \mathbb{k} \text{[illegible]} 1)!}{(j^{sa} \text{[illegible]} - 1)! \cdot (n_{ik} \text{[illegible]} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l} - 1} \sum_{\left(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}\right)}^{(\ )} \sum_{j^{sa} = j_{sa} + 1}^{\boldsymbol{l_s} + j_{sa} - k}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{\left(n_{is} = \boldsymbol{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}\right)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{s} - j_{sa}^{ik}} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - \text{[illegible]})!}$$

$$\sum_{k=\text{[illegible]}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{\text{[illegible]}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(\text{[illegible]}j_{ik}+1)}^{(\ )} \sum_{n_{sa}\text{[illegible]}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + \text{[illegible]} + j_{sa} \text{[illegible]} - s \text{[illegible]} \mathbb{k})!}{(\text{[illegible]} - \boldsymbol{n} - \mathbb{k})! \text{[illegible]} (\boldsymbol{n} + j_{ik} \text{[illegible]} j_{sa} - j^{sa} - s - j_{sa}^{ik})!} \cdot$$

$$\frac{(\text{[illegible]} - \boldsymbol{l_i})!}{(D \text{[illegible]} s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n}$ [illegible] $\wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$ [illegible]

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq$ [illegible] $\leq \boldsymbol{n} + j_{sa} -$ [illegible] $\wedge$

$\boldsymbol{l_{ik}} -$ [illegible] $+$ [illegible] $> \boldsymbol{l_s} \wedge$ [illegible] $+ j_{sa}^{ik} - j_{sa} >$ [illegible]

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n}$ [illegible]

$(D$ [illegible] $< n \wedge \boldsymbol{l_s} \leq$ [illegible] $\boldsymbol{n} + 1$ [illegible]

[illegible] $\leq j_{ik}$ [illegible] $+ j_{sa}^{ik} -$ [illegible] $\wedge$

j_{ik} [illegible] $- j_{sa}^{ik} \leq$ [illegible] $\leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{sa}} - j_{sa} +$ [illegible] $> \boldsymbol{l_s} \wedge$

[illegible] $j_{sa} - \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j^{ik}_{sa}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j^{ik}_{sa})}^{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s \cdots)!}$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}\cdots)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{\cdots=j_{ik}+\cdots-j_{sa}^{ik}}$$

$$\sum_{\cdots\boldsymbol{n}+\Bbbk} \sum_{(n_{is}\cdots+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+\cdots)}$$

$$\sum_{n_{ik}=n\cdots j_{sa}^{s}-j_{sa}^{ik}} \sum_{(\cdots=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}$$

$$\frac{(\cdots + j_{ik} + j_{sa} - \cdots^{sa} - s - j_{sa}^{ik} - I)!}{(\cdots - \boldsymbol{n} - \cdots)! \cdot \left(\boldsymbol{n} + \cdots + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\cdots_{s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{s\cdots} \cdots s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l_{ik}} - j_{sa}^{ik} + 1 > \mathbf{l_s} \wedge \mathbf{l_{sa}} + j_{sa}^{ik} - j_{sa} > \mathbf{l_{ik}} \wedge$

$D \geq \mathbf{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\mathbf{s}\colon \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \mathbf{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\mathbf{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{\mathbf{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1} \right. $$

$$ \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot $$

$$ \frac{\left(\mathbf{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\mathbf{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot $$

$$ \frac{(D + j_{sa} - \mathbf{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_{i}\mathbf{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}}^{\mathbf{l_{ik}}+j_{sa}-{}_{i}\mathbf{l}-j_{sa}^{ik}+1} $$

$$ \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}\right)$$

$$\left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)}\ \sum_{j^{sa}=j_{sa}+2}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}\right.$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)}\sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{\boldsymbol{l_{ik}}+j_{sa}\cdots}\sum_{j^{sa}=j_{sa}+1}^{\cdots j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\,{}_{i}\boldsymbol{l}} \; \sum_{(j_{ik}=j_{sa}^{ik})}^{(\;\;)} \; \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \; \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;\;)} \; \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible]}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} [illegible] s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})[illegible]}{(D + s - \boldsymbol{n} [illegible])! \cdot [illegible] - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_{sa}} \leq D + j_{sa} - \boldsymbol{n} \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + j_{sa} [illegible] s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > [illegible] \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - [illegible] j_{sa} = [illegible] - 1 \wedge$

$\boldsymbol{s}\colon \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, [illegible]\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + [illegible] \wedge$

$\mathbb{k}_z\colon z [illegible] 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \; \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \; \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \; \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \; \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} \right) +$$

$$\left(\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1} \right.$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} + 1\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+j_{sa}-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}} - {}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_i\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\left.\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}\right) -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - [illegible])!}$$

$$\sum_{k=[illegible]} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{[illegible]=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{[illegible] j_{ik}+1)}^{(\ )} \sum_{n_{sa} [illegible] +j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + [illegible] + j_{sa} - j^{sa} - s - [illegible] \Bbbk\right)!}{([illegible] - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} [illegible] j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{([illegible] - \boldsymbol{l_i})!}{([illegible] + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + [illegible]$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} [illegible] \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \boldsymbol{n} + [illegible] - s \wedge$

$\boldsymbol{l_{ik}} - [illegible] + 1 > \boldsymbol{l_s} \wedge [illegible] + j_{sa}^{ik} - j_{sa} > [illegible]$

$D + j_{sa} - \boldsymbol{n} < [illegible] \leq D + [illegible] + j_{sa} [illegible] \boldsymbol{n} - j_{sa}^{ik} \wedge$

$D \geq [illegible] < n \wedge I = \Bbbk > [illegible] \wedge$

$j_{sa} \leq j_{sa}^{i} [illegible] \wedge j_{sa}^{ik} < j_{s} [illegible] - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j^{s} [illegible], j_{sa}^{ik}, \cdots [illegible] j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} [illegible] + \Bbbk \wedge$

[illegible]

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \right.$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}[illegible]}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}[illegible]j_{ik}+1)[illegible]}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}[illegible]-\Bbbk)!}\cdot$$

$$\frac{([illegible]-1)!}{(n_{[illegible]}+j^{sa}-\boldsymbol{n}[illegible]1)!\cdot(\boldsymbol{n}-j^{s[illegible]}}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-[illegible]^{ik}[illegible]}{(\boldsymbol{l}[illegible]-j_{ik}-[illegible]1)!\cdot(j_{ik}-[illegible]_{sa}-1)!}\cdot$$

$$\frac{(D+[illegible]-\boldsymbol{l_{sa}}[illegible])!}{(D[illegible]^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}[illegible](\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\Bigg)+$$

$$[illegible]\Bigg(\sum_{k=1}^{[illegible]\boldsymbol{l_{ik}}[illegible]\boldsymbol{n}-\boldsymbol{l_{sa}}-[illegible]+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+[illegible]-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} + k - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} + k - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-[illegible]\right)}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-[illegible]-j_{sa}\right)!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)[illegible]}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot([illegible]+j_{sa}-j^{sa}[illegible])!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_{ik}=j^{sa}+[illegible]-j_{sa})}^{(\ )}\sum_{j^{sa}[illegible]-D-s}^{[illegible]\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{[illegible]=\boldsymbol{n}+\mathbb{k}}^{n[illegible]}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(\boldsymbol{n}[illegible]+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{([illegible]-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D [illegible] n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq [illegible]^{a}+j_{sa}^{ik}-j_{sa}-1 \wedge$

$j_{ik} [illegible] -j_{sa}^{ik}+1 \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-j_{sa}^{ik} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_{z}: z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1} \right. $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot $$

$$ \left. \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} \right) + $$

$$ \left(\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1} \right. $$

$$ \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+1}\ \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=[illegible]+j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=D+\boldsymbol{l_{ik}}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}-j_{sa}^{ik}+2}^{{}_{i}\boldsymbol{l}-1}\ \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-k+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}\,\text{[illegible]}}^{\text{[illegible]}} \sum_{\text{[illegible]}\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\left.\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\right)-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\ )!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\ -j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}\ )!}{(D+j_{sa}-\ -\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-\ )!}-$$

$$\sum_{k=1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{\ =j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{\ =\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(\ +j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ _i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z: z=1 \Rightarrow$

$${}_{fz}S_{j_{ik}}^{D}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-[illegible])!}$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot([illegible]-j^{sa})!}$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}[illegible])}{(D+j_{sa}-[illegible]-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-[illegible])!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+[illegible]j_{sa})}^{([illegible])}\ \sum_{j^{sa}=\boldsymbol{l_i}[illegible]-D-s}^{[illegible]\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{[illegible]=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left([illegible]+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_{[illegible]}\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D[illegible]\boldsymbol{n}[illegible]\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq[illegible]^{a}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}[illegible]j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_{z}: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}\dots+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_s\dots}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-\dots\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+\dots-j^{sa}-s\dots j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}\dots j_{ik}+\dots-j^{s\dots}\dots s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}\dots k-1)!}{(\boldsymbol{l_s}+j_{sa}\dots j_{ik}-\dots)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\dots)!}{(\dots j^{sa}+s-\dots-\boldsymbol{l_i}-j_{sa}\dots)!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\dots\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}-j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\land\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\land$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_{sa}}+s-\boldsymbol{n}-j_{sa}\land$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_{z}: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_{i}=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_{i}-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_{i}-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_{i}-n_{ik}-j_{ik}+1)!} \cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})! \cdot (\boldsymbol{n}+j_{sa}-j^{sa}-s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_{i}=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_{i}-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_{i}-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_{i}-n_{ik}-j_{ik}+1)!} \cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j^{sa}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=\boldsymbol{n}+j^{sa}-j_{sa}}\ \sum_{(n_{sa}=n_{is}-j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\mathbb{k}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-1)!}{\left(\boldsymbol{l_{ik}}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D+j^{sa}-1-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_s}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$s:\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$$
{}_{fz}S^{DOSD}_{j_{ik},j^{sa}} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{ik})!\cdot(\boldsymbol{n}+j_{ik}-j^{sa}-s)!}+$$

$$\sum_{k=\mathbb{k}}^{[illegible]}\sum_{(j_{ik}=j_{sa}^{ik})}^{[illegible]}\sum_{j^{sa}=j_{sa}}^{[illegible]}$$

$$\sum_{n_i=\boldsymbol{n}}^{n}\sum_{(n_{ik}=[illegible]j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_i}+j_{sa}^{i}-1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} \leq \boldsymbol{l_i} \leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\mathbb{k}>0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik}<j_{sa}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\Bbbk_z : z = 1 \Rightarrow$

$$ {}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} + $$

$$ \sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} $$

$$ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot $$

$$ \frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot $$

$$ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot $$

$$ \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j_{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} - s)!} - $$

$$ \sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} $$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-[illegible])}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-[illegible]s-j_{sa}^{ik})[illegible]}\cdot$$

$$\frac{(\boldsymbol{l_s}-[illegible]-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}[illegible]k)!\cdot([illegible]-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}[illegible]-j^{sa}-s)[illegible]}$$

$D\geq\boldsymbol{n}<n\land\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\land$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\land$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land\boldsymbol{l_{sa}}+j_{sa}^{ik}[illegible]\land\boldsymbol{l_i}[illegible]-s>[illegible]\land$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}[illegible]-\boldsymbol{n}-1\land$

$D\geq\boldsymbol{n}<n\land I=\Bbbk>0\land$

$j_{sa}\leq[illegible]-1\land j_{sa}^{ik}[illegible]j_{sa}-1\land j_{sa}^{s}\leq[illegible]\land$

$\boldsymbol{s}[illegible]_{sa}^{s},\cdots,j_{sa}^{ik}[illegible]\Bbbk,j_{sa},[illegible]j_{sa}^{i}\}\land$

$s\geq[illegible]\land\boldsymbol{s}=s+\Bbbk[illegible]$

$[illegible]_z:z=[illegible]\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-\text{[illegible]}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-\text{[illegible]}-s)!}$$

$$\sum_{k=\text{[illegible]}}^{\text{[illegible]}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\text{[illegible]}}^{\text{[illegible]}}$$

$$\sum_{n_i=\text{[illegible]}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\text{[illegible]}-j_{ik}+1)}^{\text{[illegible]}\,j_{ik}+1)}\ \sum_{n_{sa}=\text{[illegible]}-j^{sa}+1}^{\text{[illegible]}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-j_{ik}-1)!}{(j_{ik}-1)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_s^s\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_s^s,\cdots,j_{sa}^{ik},\cdots,\Bbbk_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}\cdot$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-1)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-\boldsymbol{n})!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\;\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{n}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}\;\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = 𝕜 > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, 𝕜, j_{sa}, \cdots, j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + 𝕜 \wedge$

$𝕜_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j_{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+𝕜}^{n} \sum_{(n_{ik}=\boldsymbol{n}+𝕜-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-𝕜}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 𝕜 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 𝕜)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\cdots)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\cdots-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}\cdots-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+\cdots)!\cdot(j_{ik}-j_{sa}^{ik}\cdots)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\cdots-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\cdots_{\boldsymbol{sa}}-j^{sa}-\boldsymbol{l_{ik}}\cdots)!\cdot(j^{sa}\cdots-j_{sa})!}\cdot$$

$$\frac{(\cdots+j_{sa}-\cdots-s)!}{(\cdots D+j^{sa}-\boldsymbol{n}-\cdots)!\cdot(\boldsymbol{n}\cdots_{sa}-j^{sa}-s)!}+$$

$$\sum_{k}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{\cdots)}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-\ {}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-[illegible])}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\mathbb{k})}^{(\;)}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-[illegible])!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+[illegible]-j^{sa}-s-[illegible])!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-[illegible])!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}[illegible])!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-[illegible])!}{(D+j^{sa}+s-\boldsymbol{n}-[illegible]-j_{sa})!\cdot([illegible]+j_{sa}-j^{sa}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+[illegible]-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l}[illegible] \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-[illegible] > \boldsymbol{l_{ik}} \wedge \boldsymbol{l}[illegible]\, j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+[illegible]-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq [illegible]+\boldsymbol{l_s}+j_{sa}-[illegible] \wedge$

$D \geq \boldsymbol{n} < n \wedge I[illegible]\mathbb{k} > 0 \wedge$

$j_{sa}[illegible]_{a}^{i}-1 \wedge j_{sa}^{ik} < [illegible]-1 \wedge j_{sa} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, [illegible], \cdots, \mathbb{k}, j_{sa}, [illegible], j_{sa}^{i}\} \wedge$

$s \geq [illegible]\boldsymbol{s}=s+[illegible]$

$\mathbb{k}_z: z=1[illegible]$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\ldots}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\ldots j_{sa}^{ik}-k)} \sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_i}+j_{sa}-\ldots-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\boldsymbol{n}} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n\ldots j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}} \sum_{\left(j_{ik}=j_{sa}^{ik}\right)}^{(\quad)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\;\sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)!\cdot(\mathbf{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\mathbf{n}-\boldsymbol{l_i})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{s=1}^{D+\boldsymbol{l_s}+s-\mathbf{n}-\boldsymbol{l_i}}\;\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\;)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\mathbf{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\Bbbk}^{n}\;\sum_{(n_{is}=\mathbf{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\;\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\mathbf{n}-I)!\cdot\left(\mathbf{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\mathbf{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

D [illegible] $n \wedge \boldsymbol{l_s} \leq D-\mathbf{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \mathbb{k} \land$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - \text{[illegible]})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - \text{[illegible]} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - \text{[illegible]})!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\text{[illegible]}\boldsymbol{n} + j_{sa} - j^{\text{[illegible]}} - s)!} +$$

$$\sum_{k=\text{[illegible]}}^{\text{[illegible]}} \sum_{(\text{[illegible]}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\text{[illegible]}-D-s}^{j_{sa}-{}_i\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\text{[illegible]}-\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}\text{[illegible]})} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n})\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$\boldsymbol{l_i}\leq D+s-\boldsymbol{n})\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}=0\wedge$

$j_{sa}\leq j_{sa}^{s}-1\wedge j_{sa}^{ik}<j_{sa}^{s}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge S=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{\boldsymbol{l_i}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\ \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{sa}-\boldsymbol{l_{ik}})!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{\boldsymbol{l_{ik}}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}\;\sum_{(j_{ik}=j_{sa}^{ik})}^{(\;)}\;\sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\;\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)}\;\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_s} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_s} \wedge \boldsymbol{l_i}+j_{sa}-s > \boldsymbol{l_{sa}} \wedge$

$\boldsymbol{l_i} \leq D+s-\boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i}-1 \wedge j_{sa}^{ik} < j_{sa}^{i}-1 \wedge j_{sa}^{s} \leq j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\;\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\;\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=j_{sa}}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\Bbbk)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-\ \Bbbk)!}{(n_i-\boldsymbol{n}-\ \Bbbk)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{sa} + j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq \boldsymbol{n}+j_{sa}-s\land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\land \boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\land$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)\land$

$D\geq \boldsymbol{n}<n\land I=\Bbbk>0\land$

$j_{sa}\leq j_{sa}^{i}-1\land j_{sa}^{ik}<j_{sa}-1\land j_{sa}^{s}\leq j_{sa}^{ik}-1\land$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\land$

$s\geq 5\land \boldsymbol{s}=s+\Bbbk\land$

$\Bbbk_z:z=1\Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-k)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j^{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\Bbbk)}^{()}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1)\vee$

$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\Bbbk,j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}\ \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}+\Bbbk-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(n_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D-s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_{ik}}-k+1)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{[illegible]}}^{DO[illegible]} = \sum_{[illegible]=1}^{{}_i\boldsymbol{l}-1} \sum_{(j[illegible]_{\boldsymbol{ik}}+\boldsymbol{n}-D)}^{([illegible]-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1)} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{s}[illegible]}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}[illegible]j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}[illegible]-\Bbbk)!}\cdot$$

$$\frac{([illegible]-1)!}{([illegible]+j^{sa}-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{([illegible]-{}_{i}\boldsymbol{l}[illegible])!}{(\boldsymbol{l_{ik}}[illegible]-{}_{i}\boldsymbol{l}[illegible]1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+[illegible]-\boldsymbol{l_{sa}}[illegible])!}{(D[illegible]^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{[illegible]=1}^{[illegible]+\boldsymbol{l_s}+j_{sa}[illegible]-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{([illegible]_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-k-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-\ldots)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j^{ik}_{sa}\right)\ldots}{\left(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}\ldots j^{ik}_{sa}-1\right)!}$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}\ldots)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\ldots\boldsymbol{n}+j_{sa}-\ldots s)!}-$$

$$\sum_{\ldots=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=j^{s\ldots}\ldots-j_{sa})}^{(\ )}\ \sum_{\ldots-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{\ldots=\boldsymbol{n}+\Bbbk}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j^{ik}_{sa}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j^{ik}_{sa}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}-I\right)!}{(\ldots-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j^{ik}_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j^{ik}_{sa}-j_{ik}-k\right)!\cdot\left(j_{ik}-j^{ik}_{sa}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D \geq \ldots n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq \ldots^{a}+j^{ik}_{sa}-j_{sa} \wedge$

$\ldots j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j^{ik}_{sa}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}_{sa}-j_{sa}=\boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s=\boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I=\Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_{z}: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot \frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_i}+j_{sa}^{ik}-{}_{i}\boldsymbol{l}-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$\frac{(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j^{ik}_{sa})!}{(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s)}^{(\boldsymbol{l_s}+j^{ik}_{sa}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa}}^{\boldsymbol{n}+j_{sa}-s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+j^{sa}-j_{ik})}^{(n_i-j_{ik}+1)}$$

$$\sum_{n_{ik}=n_{is}+j^{s}_{sa}-j_{sa}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\Bbbk)}^{(\;)}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - j^{ik}_{sa} - I)!}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j^{ik}_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j^{ik}_{sa} - j_{ik} - k)! \cdot (j_{ik} - j^{ik}_{sa} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j^{ik}_{sa} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j^{ik}_{sa} - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j^{ik}_{sa} \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} = \boldsymbol{l_{ik}} \wedge$

$D + j^{ik}_{sa} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j^{ik}_{sa} - \boldsymbol{n} - 1 \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_{i}\boldsymbol{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_{ik}}+j_{sa}-{}_{i}\boldsymbol{l}-j_{sa}^{ik}+1}
$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_i\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=\ldots}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}}\ \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I)!}{(n_i-\boldsymbol{n}-I)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$((\ldots < n \land \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \land$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \land$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \land$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{\big(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\big)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \big(j_{ik} - j_{sa}^{ik} - 1\big)!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k={}_i\boldsymbol{l}} \sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{\big(\boldsymbol{l_{sa}}+j_{sa}^{ik}-{}_i\boldsymbol{l}-j_{sa}+1\big)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-1)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(D-j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}_{=1}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$((D-\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \land j_{sa}^{ik} < j_{sa} - 1 \land j_{sa}^{s} \leq j_{sa}^{ik} - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i}\right\} \land$

$s \geq 5 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{\Bbbk_z}S_{j_{ik},j^{sa}}^{DO} = \sum_{\cdots 1}^{\boldsymbol{l_i}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1}^{\boldsymbol{l_{sa}}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-{}_{i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_{ik}} + j_{sa} - \boldsymbol{n} - j_{sa}^{ik} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge \boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z: z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-[illegible]\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-[illegible]-s)!}-$$

$$\sum_{k=[illegible]_i\boldsymbol{l}}\ \sum_{(j_{ik}[illegible])}^{(\ )}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-[illegible]}^{[illegible]+1}$$

$$\sum_{n_i=[illegible]}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+[illegible]j_{ik}+1)}^{(n_i[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{[illegible]j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-[illegible]-1)!}{(j_{ik}-[illegible])!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-[illegible]-\mathbb{k}-1)!}{(j^{sa}[illegible]j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)}\ \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik} - I\right)!}{(n_i - \boldsymbol{n} - I)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{\left(\boldsymbol{l_s} + j_{sa}^{ik} - j_{ik} - k\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j^{sa} + s - \boldsymbol{n} - \boldsymbol{l_i} - j_{sa})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!}$$

$\left((D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land\right.$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{sa}} - j_{sa} + 1 > \boldsymbol{l_s} \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \land$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_{sa}} + s - \boldsymbol{n} - j_{sa}) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1) \lor$

$(D \geq \boldsymbol{n} < n \land \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \land$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n} + j_{sa} - s \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \land$

$\left.D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1)\right) \land$

$D \geq \boldsymbol{n} < n \land I = \mathbb{k} > 0 \land$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \mathbb{k}, j_{sa}, \cdots, j_{sa}^{i}\} \wedge$

$s \geq 5 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$
\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik})!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +
$$

$$
\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-k+1)} \sum_{j^{sa}=\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot
$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-[illegible]\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-[illegible]-s)!}\ [illegible]$$

$$\sum_{k=\ _{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}}-\ _{i}\boldsymbol{l}+1\right)}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+[illegible])}^{[illegible]}\ \sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-[illegible]}^{[illegible]+1}$$

$$\sum_{n_i=[illegible]}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+[illegible]+1)}^{(n_i-[illegible])}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{[illegible]-j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-[illegible]-1)!}{(j_{ik}-[illegible])!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{([illegible]-\Bbbk-1)!}{(j^{sa}-[illegible]-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\ _{i}\boldsymbol{l}-j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-\ _{i}\boldsymbol{l}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\ \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}^{(\ \ )}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-S}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk+j_{sa}^{ik}-j_{ik}\right)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{sa}}-j_{sa}+1 > \boldsymbol{l_s} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1 \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq D+\boldsymbol{l_{sa}}+s-j_{sa}) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq \boldsymbol{n}+j_{sa}-s \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-1)\big)\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^{s}\leq j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,j_{sa}^{ik},\cdots,\mathbb{k},j_{sa},\cdots,j_{sa}^{i}\right\}\wedge$

$s\geq 5\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=1\Rightarrow$

$$
{}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1)}\sum_{j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$
\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot
$$

$$
\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot
$$

$$
\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot
$$

$$
\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+
$$

$$
\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa})}^{(\boldsymbol{l_{ik}}-k+1)}\sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
$$

$$
\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot
$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - k + 1)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} + 1\right)} \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\boldsymbol{l_{sa}} - {}_{i}\boldsymbol{l} + 1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j^{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - {}_{i}\boldsymbol{l} - j_{sa}^{ik}\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - {}_{i}\boldsymbol{l} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik} - 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(D + j^{sa} - \boldsymbol{n} - \boldsymbol{l_{sa}})! \cdot (\boldsymbol{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s\right)}^{\left(\boldsymbol{l_s}+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}\text{[illegible]})}^{(\;)}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}\text{[illegible]}s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-\text{[illegible]}-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot(\text{[illegible]}-1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\text{[illegible]})!\cdot(\boldsymbol{n}\text{[illegible]}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq\boldsymbol{n}+j_{sa}-s\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}$ [illegible] $\wedge\boldsymbol{l_i}$ [illegible] $-s=$ [illegible] $\wedge$

$D+j_{sa}-\boldsymbol{n}<\boldsymbol{l_{sa}}\leq D+$ [illegible] $+j_{sa}-\boldsymbol{n}-$ [illegible]

$D\geq\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge$

$j_{sa}\leq$ [illegible] $-1\wedge j_{sa}^{ik}$ [illegible] $j_{sa}-1\wedge j_{sa}^{s}\leq$ [illegible] $\wedge$

$\boldsymbol{s}$ [illegible] $j_{sa}^{s},\cdots,j_{sa}^{ik},$ [illegible] $\mathbb{k},j_{sa},$ [illegible] $j_{sa}^{i}\}\wedge$

$s\geq$ [illegible] $\wedge\boldsymbol{s}=s+\mathbb{k}$ [illegible]

[illegible] $:z=$ [illegible]

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD}=\sum_{k=1}^{i\boldsymbol{l}-1}\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}\text{[illegible]}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-\text{[illegible]}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}\text{[illegible]})!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\text{[illegible]}+j_{sa}-j\text{[illegible]}s)!}+$$

$$\sum_{\text{[illegible]}}^{{}_{i}\boldsymbol{l}-1}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}\text{[illegible]}D)}^{(\text{[illegible]}-k+1)}\;\sum_{j^{sa}=\boldsymbol{l_{ik}}\text{[illegible]}j_{sa}^{ik}+2}^{\text{[illegible]}j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\;\sum_{(n_{ik}=\text{[illegible]}\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}\text{[illegible]})}\;\sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}\text{[illegible]}2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-\text{[illegible]}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k={}_{i}\boldsymbol{l}}\;\sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}+1\right)}\;\sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-[illegible])!}\cdot$$

$$\frac{(n_{sa}-1)[illegible]}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot[illegible]-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}[illegible]{}_i\boldsymbol{l}-j_{sa}[illegible]}{(\boldsymbol{l_{ik}}-j_{ik}-{}_i\boldsymbol{l}+[illegible]\cdot(j_{ik}-j_{sa}^{ik}[illegible])!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}[illegible]-j_{sa})[illegible]}{(j_{ik}+\boldsymbol{l_{sa}}[illegible]{}^{sa}-\boldsymbol{l_{ik}}[illegible](j^{sa}[illegible]-j_{sa})!}\cdot$$

$$\frac{([illegible]+j_{sa}-[illegible]-s)!}{[illegible]+j^{sa}-\boldsymbol{n}-[illegible])!\cdot(\boldsymbol{n}[illegible]{}_{a}-j^{sa}-s)!}-$$

$$\sum^{D+\boldsymbol{l_s}+j_{sa}[illegible]\boldsymbol{l_{sa}}}_{[illegible]}\ \sum^{(\ )}_{(j_{ik}[illegible]+j_{sa}^{ik}-j_{sa})}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_s}+j_{sa}-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}\ \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}-I\right)!}{(n_i-\boldsymbol{n}-I)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{\left(\boldsymbol{l_s}+j_{sa}^{ik}-j_{ik}-k\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j^{sa}+s-\boldsymbol{n}-\boldsymbol{l_i}-j_{sa})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$

$j_{sa}^{ik}\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l_{ik}} - j_{sa}^{ik} + 1 > \mathbf{l_s} \wedge \mathbf{l_{sa}} + j_{sa}^{ik} - j_{sa} > \mathbf{l_{ik}} \wedge \mathbf{l_i} + j_{sa} - s = \mathbf{l_{sa}} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l_{sa}} \leq D + \mathbf{l_s} + j_{sa} - \mathbf{n} - 1 \wedge$

$D \geq \mathbf{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} \leq j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} \leq j_{sa}^{ik} - 1 \wedge$

$\mathbf{s}: \left\{ j_{sa}^{s}, \cdots, j_{sa}^{ik}, \cdots, \Bbbk, j_{sa}, \cdots, j_{sa}^{i} \right\} \wedge$

$s \geq 5 \wedge \mathbf{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik},j^{sa}}^{DOSD} = \sum_{k=1}^{{}_{i}\mathbf{l}-1} \sum_{(j_{ik}=\mathbf{l_i}+\mathbf{n}-D)}^{(\mathbf{l_i}+\mathbf{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\mathbf{l_i}+j_{sa}-D-s}^{\mathbf{l_i}+j_{sa}-k-s+1} \sum_{n_i=\mathbf{n}+\Bbbk}^{n} \sum_{(n_{ik}=\mathbf{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i - n_{ik} - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l_{ik}} - k - j_{sa}^{ik})!}{(\mathbf{l_{ik}} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l_{sa}} + j_{sa}^{ik} - \mathbf{l_{ik}} - j_{sa})!}{(j_{ik} + \mathbf{l_{sa}} - j^{sa} - \mathbf{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l_{sa}} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l_{sa}})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{{}_{i}\mathbf{l}-1} \sum_{(j_{ik}=\mathbf{l_i}+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l_{ik}}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l_i}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-k+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}+$$

$$\sum_{k=1}^{[illegible]}\ \sum_{(j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{ik}}-[illegible]+1)}\ \sum_{j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s}^{\boldsymbol{l_i}+j_{sa}-{}_{i}\boldsymbol{l}-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk-j_{ik}+1)}^{(n_i-j_{ik}+1)}\ \sum_{n_{sa}=\boldsymbol{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j^{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-{}_{i}\boldsymbol{l}-j_{sa}^{ik})!}{(\boldsymbol{l_{ik}}-j_{ik}-{}_{i}\boldsymbol{l}+1)!\cdot(j_{ik}-j_{sa}^{ik}-1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(D+j^{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}})!\cdot(\boldsymbol{n}+j_{sa}-j^{sa}-s)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+j_{sa}-\boldsymbol{n}-\boldsymbol{l_{sa}}} \sum_{(j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s)}^{(\boldsymbol{l_s}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}+j_{sa}^{ik}-[illegible]}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+[illegible]-j^{sa}-\mathbb{k})}^{(\;)}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - [illegible]}{(n_i - \boldsymbol{n} - I)! \cdot (\boldsymbol{n} + j_{ik} + [illegible] - j^{sa} - s - [illegible]_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - [illegible])!}{(\boldsymbol{l}_s + j_{sa}^{ik} - j_{ik} - [illegible]) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l}[illegible]}{(D + j^{sa} + s - \boldsymbol{n} - [illegible] - j_{sa})! \cdot ([illegible] + j_{sa} - j^{sa} - s)!}$$

DİZİN

B

toplam düzgün simetrik olasılık, 2.3.1.2.2.1.3.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.1.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.2.1.1/5

toplam düzgün simetrik olasılık, 2.3.1.2.2.2.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.2.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.2.2.1/5

toplam düzgün simetrik olasılık, 2.3.1.2.2.2.2.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.2.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.2.3.1/3-4

toplam düzgün simetrik olasılık, 2.3.1.2.2.2.3.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.4.1.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.4.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.4.2.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.4.2.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.4.3.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.4.3.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.6.1.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.6.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.6.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.6.2.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.6.2.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.6.3.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.6.3.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.7.1.1/5

toplam düzgün simetrik olasılık, 2.3.1.2.2.7.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.7.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.7.2.1/5

simetrinin her durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.4.1.2.1/838

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin her durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.4.1.3.1/838

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.1.1.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.5.1.1.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.1.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.1.2.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.5.1.2.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.1.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.1.3.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.5.1.3.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.1.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.2.1.1/6
toplam düzgün simetrik olasılık, 2.3.1.2.5.2.1.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.2.1.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.2.2.1/6
toplam düzgün simetrik olasılık, 2.3.1.2.5.2.2.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.2.2.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.2.3.1/[illegible]
toplam düzgün simetrik olasılık, 2.3.1.2.5.2.3.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.2.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.1.1.1/7-8
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.8.1.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.1.2.1/7-8
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.8.1.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.1.3.1/7-8
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.8.1.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.2.1.1/12
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.8.2.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.6.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.6.2.1/4-5

toplam düzgün simetrik olasılık, 2.3.1.2.6.6.2.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.6.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.6.3.1/4-5

toplam düzgün simetrik olasılık, 2.3.1.2.6.6.3.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.6.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.7.1.1/6

toplam düzgün simetrik olasılık, 2.3.1.2.6.7.1.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.7.1.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.7.2.1/6

toplam düzgün simetrik olasılık, 2.3.1.2.6.7.2.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.7.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.7.3.1/4-5

toplam düzgün simetrik olasılık, 2.3.1.2.6.7.3.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.7.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.1.1.1/7-8

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.1.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.1.2.1/7-8

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.1.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.1.3.1/7-8

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.1.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.1.1/12

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.2.1/12

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.3.1/8

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

toplam düzgün simetrik olasılık, 2.3.1.2.7.2.1.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.2.1.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.2.2.1/7
toplam düzgün simetrik olasılık, 2.3.1.2.7.2.2.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.2.2.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.2.3.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.2.3.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.2.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.4.1.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.4.1.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.4.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.4.2.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.4.2.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.4.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.4.3.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.4.3.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.4.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.6.1.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.6.1.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.6.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.6.2.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.6.2.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.6.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.6.3.1/5
toplam düzgün simetrik olasılık, 2.3.1.2.7.6.3.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.6.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.7.1.1/7
toplam düzgün simetrik olasılık, 2.3.1.2.7.7.1.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.7.1.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.7.2.1/7
toplam düzgün simetrik olasılık, 2.3.1.2.7.7.2.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.7.7.2.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.7.3.1/5

simetrik olasılık, 2.3.1.1.10.6.2.1/12-13

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.10.6.2.1/23

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.10.6.3.1/12-13

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.10.6.3.1/23

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.10.7.1.1/22

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.10.7.1.1/23

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.10.7.2.1/22

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.10.7.2.1/23

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.10.7.3.1/12-13

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.10.7.3.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.11.1.1.1/16

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.11.1.1.1/17

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.11.1.2.1/16

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.11.1.2.1/17

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.11.1.3.1/16

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.11.1.3.1/17

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.11.2.1.1/29

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.11.2.1.1/30

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.11.2.2.1/29

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.11.2.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

simetrik olasılık, 2.3.1.1.11.2.3.1/16

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.11.2.3.1/17

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

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 soru, problem ve ispat çözümlerinden oluşmaktadır. Bu cilt bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz olasılık dağılımlarında, simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılığın, tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna toplam bağlı düzgün olmayan simetrik olasılık kitabında bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılığın, tanım ve eşitlikleri verilmektedir.

VDOİHİ'nin diğer ciltlerinde olduğu gibi bu ciltte de verilen ana eşitlikler, olasılık tablolarından elde edilen verilerle üretilmiştir. Diğer eşitlikler ise bu eşitliklerden teorik yöntemle üretilmiştir. Eşitlik ve tanımların üretilmesinde dış kaynak kullanılmamıştır.