

VDOİHİ

Bağımlı ve Bir Bağımsız Olasılıklı
Farklı Dizilimsiz Bağımlı Durumlu
Simetrinin İlk ve Son Durumunun
Bulunabileceği Olaylara Göre Toplam
Düzgün Olmayan Simetrik Olasılık

Cilt 2.3.1.3.2.1.1.3

İsmail YILMAZ

Matematik / İstatistik / Olasılık

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VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık Cilt 2.3.1.3.2.1.1.3

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KÜTÜPHANE BİLGİLERİ

Yılmaz, İsmail.

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1. Bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

Dili: Türkçe + Matematik Mantık



Türkiye Cumhuriyeti Devleti
Kuruluşunun
100.Yılı Anısına



K. Atatürk

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 deklaratif bilgi yapılarıyla birlikte matematik mantık yapıları üzerine çalışmalar yapmıştır. Yazarın farklı alanlarda yapmış olduğu çalışmalar arasında ölçme ve değerlendirmeye yönelik çalışmaları da mevcuttur.

VDOİHİ

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Sanırım bilgi ve teknolojideki kaderimiz veriyle ilişkilendirilmiş.

İÇİNDEKİLER

| | |
|---|----|
| Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Dağılımlar | 1 |
| Simetriden Seçilen İki Duruma Göre Toplam Düzgün Olmayan Simetrik Olasılıklar | 3 |
| Dizin | 14 |

GÜLDÜNYA

Simge ve Kısaltmalar

n : olay sayısı

n : bağımlı olay sayısı

m : bağımsız olay sayısı

l : bağımsız durum sayısı

I : simetrimin bağımsız durum sayısı

II : simetrimin bağımlı durumlarından önce bulunan bağımsız durum sayısı

I : simetrimin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

lk : simetrimin bağımlı durumları arasındaki bağımsız durumların sayısı

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

l : ilgilenilen bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

l : simetrimin ilk bağımlı durumunun, bağımlı olasılık farklı dizilimsiz dağılımın son olayı için sırası. Simetrimin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

l_i : simetrimin son bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrimin birinci bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

l_s : simetrimin ilk bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz

dağılımlardaki sırası. Simetrimin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

l_{ik} : simetrimin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası veya simetrimin iki bağımlı durumu arasında bağımsız durum bulunduğunda, bağımsız durumdan önceki bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

l_{sa} : simetrimin aranacağı bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrimin aranacağı bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

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

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

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

j_{ik} : simetrimin ikinci olayındaki durumun, gelebileceği olasılık dağılımlardaki olayın sırası (son olaydan ilk olaya doğru) veya simetride, simetrimin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası veya simetrimin 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

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

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

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

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

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

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

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

$f_Z S_{j,sa}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin durumuna bağlı simetrik olasılık

$f_Z S_{j,sa,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin durumuna bağlı simetrik olasılık

$f_Z S_{j,sa,D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin durumuna bağlı simetrik olasılık

$f_Z S_{j_s,j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

$f_Z S_{j_s,j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

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$f_{Z,0} S_{j_s,j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

$f_{Z,0} S_{j_s,j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

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${}^0 f_Z S_{j_s,j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

${}^0 f_Z S_{j_s,j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

${}^0 f_Z S_{j_s,j_i,D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu bağımlı simetrisinin ilk ve son durumunun bulunabileceği olaylara göre simetrik olasılık

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$f_Z S_{j_s,j,sa,D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu

bağımlı simetrinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre simetrik olasılık

$f_{z,0}S_{j_s,j^{sa}}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre simetrik olasılık

$f_{z,0}S_{j_s,j^{sa},0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre simetrik olasılık

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$f_zS_{j_{ik},j^{sa}}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna bağlı simetrik olasılık

$f_zS_{j_{ik},j^{sa},0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin herhangi iki durumuna bağlı simetrik olasılık

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$f_zS_{j_{ik},j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin her durumunun bulunabileceği olaylara göre simetrik olasılık

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$f_{z,0}S_{j_s,j_{ik},j^{sa},0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı

durumlu bağımsız simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre simetrik olasılık

$fz,0S_{js,jik,j^{sa},D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre simetrik olasılık

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fzS_{js,jik,j^{sa},j_i} : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre simetrik olasılık

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$fzS_{j_i}^{DSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu

simetrisinin son durumunun bulunabileceği olaylara göre toplam düzgün simetrik olasılık

$fzS_{j_i, 0}^{DSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre toplam düzgün simetrik olasılık

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durumunun bulunabileceği olaylara göre toplam düzgün simetrik olasılık

$fzS_{js,jik,j_i,0}^{DSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre toplam düzgün simetrik olasılık

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olaylara göre toplam düzgün simetrik olasılık

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

$fzS_{j_i,0}^{DOSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız

simetrinin son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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

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$f_{z,0} S_{j_s, j_s^{sa}}^{DOSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı

durumlu simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

$f_{z,0}S_{j_s,j^{sa},0}^{DOSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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olaylara göre toplam düzgün olmayan simetrik olasılık

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$fz S_{j_s,j_{ik},j^{sa},D}^{DOSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı toplam düzgün olmayan simetrik olasılık

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$fz \overset{DOSD}{\Rightarrow}_{j_s, j_{ik}, j_i, 0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı toplam düzgün olmayan simetrik olasılık

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$fz, 0 \overset{DOSD}{\Rightarrow}_{j_s, j_{ik}, j^{sa}, j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı

durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı toplam düzgün olmayan simetrik olasılık

$fz,0S_{\Rightarrow j_s, j_{ik}, j^{sa}, j_{i,0}}^{DOSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı toplam düzgün olmayan simetrik olasılık

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herhangi bir ve son durumuna bağlı toplam düzgün olmayan simetrik olasılık

$fzS_{\Rightarrow j_s, \Rightarrow j_{ik}, j^{sa}, j_i}^{DOSD}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı toplam düzgün olmayan simetrik olasılık

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$fz,0S_{\Rightarrow j_s, \Rightarrow j_{ik}, j^{sa}, j_{i,D}}^{DOSD}$: 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 toplam düzgün olmayan simetrik olasılık

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

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

${}^0S_{fz \Rightarrow j_s, \Rightarrow j_{ik}, j^{sa}, j_i, D}^{DOSD}$: 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 herhangi iki ve son durumuna bağlı toplam düzgün olmayan simetrik olasılık

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

büyüğe sıralanmasıyla elde edilebilen kurallı tablolar kullanılmaktadır. Farklı dizilimsiz dağılımlarda durumların küçükten-büyüğe sıralama için verilen eşitliklerde kullanılan durum sayısının düzenlenmesiyle, büyükten-küçüğe sıralama durumlarının eşitlikleri elde edilebilir.

Farklı dizilimli dağılımlar, dağılımın ilk durumuyla başlayan (bunun yerine farklı dizilimli dağılımlarda simetrisinin ilk durumuyla başlayan dağılımlar), dağılımın ilk durumu hariçinde dağılımın herhangi bir durumuyla başlayan dağılımlar (bunun yerine farklı dizilimli dağılımlarda simetride bulunmayan bir durumla başlayan dağılımlar) ve dağılımın ilk durumu hariç olmak üzere dağılımının başladığı farklı ikinci durumla başlayıp simetrisinin 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 dağılım ve bir bağımsız olasılıklı durumla oluşturulabilen dağılımlara ve bağımlı olasılıklı dağılımların kendi olay sayısından (bağımlı olay sayısı) büyük olmasına (bağımsız olay sayısı) dağılımla bağımlı ve bir bağımsız olasılıklı dağılımlar elde edilir. Bağımlı dağılım farklı dizilimsiz dağılımlarda incelendiğinde, bu dağılımlara bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlar denir. Bağımlı ve bir bağımsız olasılıklı dağılımlar; bağımlı dağılımlara, bağımsız durumlar ilk durumdan dağıtılmaya başlanarak tabloları elde edilir. Bu bölümde verilen eşitlikler, bu yöntemle elde edilen kurallı tablolara göre verilmektedir. Farklı dizilimsiz dağılımlarda durumların küçükten-

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 tanımlanması eşitlikleri verilmektedir.

Farklı dizilimsiz dağılımlarda simetrinin durumlarının olasılık dağılımındaki sıralama 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 kullanılmaktadır. Bu eşitlikler, bir bağımlı ve bir bağımsız olasılıklı dağılımlar için VDO ve CHT adları ile çıkarılan eşitliklerle birleştirilerek, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımların yeni eşitlikleri elde edilecektir. Eşitlikleri adlandırılmasında bağımlı olasılıklı farklı dizilimsiz dağılımlarda kullanılan adlandırmalar kullanılacaktır. Bu adların altına 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” durumları /bağımsız/bağımlı” kelimeleri getirilerek, simetrinin bağımlı durumlarında 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 da bundan gerekmedikçe yeni tanımlama yapılmayacaktır.

Simetrinin durumlarının bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırasına göre verilen eşitliklerdeki toplam sınır değerleri, simetrinin küçükten-büyük 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 edilecektir.

Bu yolla bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılığın verileceği verilmektedir.

SİMETRİDEN SEÇİLEN İKİ DURUMA GÖRE DÜZGÜN OLMAYAN SİMETRİK OLASILIK

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{D, n} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+l_s, j_i=D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{\mathbf{l}_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(l_i=l_{ik}+n-D-s+1)}^{(l_i=n-D-s)} \sum_{j_i=l_i+n-D}^{l_i+n-D-s+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i - 1)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - 1)!}{(j_s + \mathbf{l}_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_i)!}{(j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i + s - n - \mathbf{l}_i - j_i} \sum_{(j_s = \mathbf{l}_i + k - s + 1)}^{(\mathbf{l}_{ik} - k - j_{sa})} \sum_{j_i = j_s + s - 1}^{(\mathbf{l}_{ik} - k - j_{sa})}$$

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

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(\quad)}$$

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$D - j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

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

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_s}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{lk}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^n$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n-n+1} \sum_{j_i=n-D-j_{sa}^{ik}+1}^{(l_s+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

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

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge \\
& D \geq n < n \wedge I = \mathbb{k} = 0 \wedge \\
& j_{sa}^s \leq j_{sa}^i - 1 \wedge
\end{aligned}$$

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - l_i)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - l_i)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+\mathbf{n}-j_s-k}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_i=n}^{(j_s+1)} \sum_{n_i=n}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(\quad)} \sum_{n_{ik}=n_{ik}+j_s-k-j_i-j_{sa}^s-\mathbb{K}}^{(\quad)} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s) \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s)}^{(l_i+n-D-s)} \sum_{j_i=n-D}^{l_i-k+1} \\ & \sum_{n_i=n-j_s+1}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\ & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=\mathbf{l}_i, \dots, D-s+1)}^{(\mathbf{l}_s-1)} \sum_{j_i=j_s+1}^{D-s+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{i_s}=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{i_s}=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)}$$

$$\sum_{n_{i_s}=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{i_s}=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{i_s}=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)}$$

$$\sum_{n_{i_s}=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{i_s}=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{i_s}=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n - j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_s \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + \mathbf{l}_{sa} = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

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

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge \\
& D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq \mathbf{n} \wedge \\
& \mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_i \wedge \mathbf{l}_{sa} + j_s - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} = \mathbf{n} \wedge \\
& j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
& \mathbf{s}: \{j_s, j_i, \mathbf{s}\} \wedge \\
& s \geq 2 \wedge \mathbf{s} = \mathbf{n} \Rightarrow
\end{aligned}$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(\mathbf{l}_i+\mathbf{n}-D-s)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa})} \sum_{j_i=j_s+s-1}^{k+1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa})} \sum_{j_i=j_s+s-1}^{k+1}
\end{aligned}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-j_s+1)!}{(l_s-j_s-\mathbf{n}+1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

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

$$s \geq 2 \wedge \mathbf{s} = \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - \mathbf{l}_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=0}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_i=n-j_i+1}^{n_{is}+j_s} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - n_i - n - 1)!}{(n_s - j_i - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s - l_s - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge \mathbf{s} = s =$$

$$_{fz} S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\ \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_s-k+1, \dots, D)}^{(l_s-k, \dots, l_{sa}+s-n-j_{sa}+1)} \sum_{(j_i=l_s+s-k, \dots, l_{sa}+s-n-j_{sa}+1)}^{(l_s-k, \dots, l_{sa}+s-n-j_{sa}+1)}$$

$$\sum_{n_i=1}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1, \dots, n_{is}+j_s-j_i)}^{(n_i-j_s+1, \dots, n_{is}+j_s-j_i)}$$

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

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = \mathbb{k} = \mathbb{k} \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\}$$

$$S \leq \mathbf{L} \wedge \mathbf{S} = S \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_i=l_s-k+1}^{(l_s-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D > \mathbf{n} < n \wedge \mathbb{k} = \mathbb{k} =$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

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

$$s \geq 2 \wedge \mathbf{s} = j_{sa}^i - j_{sa}^s$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=s+1}^{n_{is}+j_s-j_i} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l - 1} \sum_{j_{sa}=2}^{(l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{j_{sa}=j_{sa}^{ik} + 2}^{l_i - k + 1} \sum_{n_i=n}^{n_i - j_s + 1} \sum_{n_s=n - j_i + 1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i l}^{()} \sum_{j_s=1}^{l_i - i l + 1} \sum_{j_i=s}^{(n_i - j_i + 1)} \sum_{n_i=n}^n \sum_{n_s=n - j_i + 1}^{(n_i - j_i + 1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

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

$$\sum_{k=1}^{l-1} \sum_{(j_s=j_i-1)}^{(l_k+s-j_{sa}^{ik}+1)} \sum_{j_i=s+1}^{(n_i-j_s+1)}$$

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

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

$$\frac{(n_i - j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

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

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

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{lk}+1} \sum_{j_i=j_s+s-1}^{n-j_s-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{lk}+1} \sum_{j_i=j_s+s-1}^{n-j_s-j_i+1}$$

$$\sum_{n_i=n}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!}.$$

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

$$\sum_{k=1}^{l-1} \sum_{i=2}^{l-k} \sum_{j_i=j_s+1}^{n_i-j_s+1} \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_s - 1)!}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=n_i-j_s+1}^{n_i-j_s+1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)! \cdot (j_s - 1)!}.$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^l \sum_{j_s=1}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{ik}+s-k-j_{sa}^{ik}} \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{ik}-k+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i+1} \sum_{(j_s=1)}^{(n_{is}-1)} \sum_{j_i=l_i+n-D}^{(n_{is}-1)}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(n_{is}-1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s =$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_i+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n-j_i} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_s - s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n+l_i-j_s-1}^n \sum_{j_s=j_s+1}^{(j_s+1)}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i \leq n \wedge$$

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

$$j_s - s - 1 < l_i \leq D + j_i + s - n - 1 \wedge$$

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

$$j_{sa}^s \leq j_{sa}^l + 1 \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=1}^{i_s} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_s=1)}^{(\cdot)} l_{ik+s-1} l_{sa}^{ik+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n} \sum_{(j_s=1)}^{(\cdot)} l_{sa}^{s-k} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\cdot)} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \frac{l_{ik}+s-k-j_{sa}^{ik}+1}{(l_{ik}+n-D-j_{sa}^{ik})} \cdot \frac{\sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_{is}=n-j_s+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{j_s=1}^{(D+l_s+s-n-l_i)} \sum_{j_i=1}^{(l_s-k+1)} \sum_{j_{sa}=1}^{(n-l_i-j_s+1)} \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\frac{(n_i - n_s - 1)!}{(n_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\frac{(n_i - n_s - 1)!}{(n_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{(n_i-j_s+1)}$$

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - l_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_i \leq D + s - \mathbf{n}) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n}) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

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

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{k=s+1}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=0}^n \sum_{i=1}^{(n)} \sum_{j_i=1}^{(n)} \frac{(n_s - j_i - j_s - s)!}{(n_s + j_i - n - j_s^s)! \cdot (n - s)!} \cdot \frac{(D + s - n - l_i)!}{(n - s)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_{ik} \leq D + s - n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$(\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & \sum_{j_s=1}^{(l_s-k)} \sum_{j_i=j_s+s-1}^{l_i-k+1} S_{j_s, j_i}^{DOSD} \sum_{n_i=j_s}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=l}^{()} \sum_{j_s=1}^{l_i - l + 1} \sum_{j_i=s}$$

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

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i=l_i+n-D}^{n_i + j_s - j_i} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_i + 1} \sum_{j_i=l_i+n-D}^{l_i - l_i + 1}$$

$$\sum_{n_i=n}^n \sum_{(n_i-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n_s - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_i - 1)!}{(l_i - l_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\ \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{l-1} \sum_{j_s=\mathbf{l}_i+\mathbf{l}_s-s+1}^{(\mathbf{l}_s-k+1)} \sum_{j_i=j_s+s-1}^{k+1}$$

$$\sum_{\mathbf{n}-(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{(\quad)} \sum_{j_s=1}^{l_i-\quad} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{l+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^{D+l_s+s} \sum_{l_i=\mathbf{n}-D-s+1}^{(l_s-k+1)} \sum_{j_s=\mathbf{n}+s-1}^{(l_i+\mathbf{n}-D-s+1)}$$

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

$$\sum_{n_{is}=\mathbf{n}+\mathbb{k}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^{lk}-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_s + j_i - j_s - s)!}{(l_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s - s + 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

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

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & f_z S_{j_s, j_i}^{DOSD} = \sum_{j_s=1}^{i^{l-1}-1} \sum_{(j_s=2)}^{n-D-s} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\ & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq \mathbf{n} + l_s + s - \mathbf{n} - 1 \wedge$$

$$D > \mathbf{n} < n \wedge \mathbb{k} = \mathbb{k} =$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

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

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} =$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l-1} \sum_{j_{sa}=2}^{(l_{ik}-k-j_{sa}^{ik}+2, l_{sa}+s-k-j_{sa}+1)} \sum_{j_{sa}=j_{sa}^{ik}+2}^{n-j_{sa}+1} \sum_{n_i=n-j_i+1}^{n-j_i+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i l}^{()} \sum_{j_s=1}^{l_{sa}+s-i l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n-j_i+1} \sum_{n_i=n-j_i+1}^{n-j_i+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}
\end{aligned}$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{l_i}} \sum_{j_s=1}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-i-l_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{n-j_i+1}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+\mathbf{n}-l_i} \sum_{j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K}}^{\binom{D}{l_i}}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = \mathbb{K} = 0 \wedge$$

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

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge s = s =$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{j_s=1}^{(\mathbf{l}_s - \mathbf{l}_s + s - \mathbf{l}_i) - j_{sa} + 1} \sum_{j_i=\mathbf{l}_s + s - k}^{\mathbf{l}_s + s - k + 1}$$

$$\sum_{n_i=\mathbf{n}}^{(n_i - j_s)} \sum_{n_{is}=\mathbf{n} - j_s + 1}^{n_{is} + j_s - j_i} \sum_{j_i=j_i+1}^{\mathbf{l} - j_i + 1}$$

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

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{j_s=1}^{(\mathbf{l}_s - \mathbf{l}_s + s - \mathbf{l}_i) - j_{sa} + 1} \sum_{j_i=\mathbf{l}_s + \mathbf{n} + s - D - j_{sa}}^{\mathbf{l}_s + s - \mathbf{l}_i - j_{sa} + 1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_s=\mathbf{n} - j_i + 1}^{(n_i - j_i + 1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n-l_s-k}^{l_s+s-k} \sum_{n_i=n}^{n} \sum_{n_{is}=n+l_k-j_s+1}^{n-l_k+1}$$

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

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

$$\frac{(n + j_i - j_s - s)!}{(n + j_i - n - l_i)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=j_s}^{(n_i-1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i-l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - n - l_s - j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{l=1}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}
\end{aligned}$$

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

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-\mathbf{n}-1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i+j_s-j_i-k)} \sum_{(j_i=j_s+1)}^{(n_i-j_s+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \frac{(n_i-j_s+1)!}{(n_i+n_{is}+j_s-j_i-k)!} \cdot$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

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

$$\frac{(n_{is} - j_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_i - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$fz S_{j_s, j_i}^{DOSL}$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

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

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s}^{SD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s, \mathbf{n}-D-j_s+1)}^{n+\mathbf{n}-D-j_s+1} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l_{ik}+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
& \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik}) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_s+s-k} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{(j_i=l_i+n-D)}^{(l_i-k+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(j_i-l_k)}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - l_i)!} \cdot$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^s\}$$

$$s = n + \mathbb{k} = s + \mathbb{k} \wedge$$

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

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{k+1} \\
& \sum_{i=n+l_i}^n \sum_{j_s=n+l_i-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{k+1}
\end{aligned}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-j_s-j_{sa}^s-1)!}{(l_s-j_s-j_{sa}^s-1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-j_s-j_{sa}^s-l_i)! \cdot (n-j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > 0 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z \mathcal{S}_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D-n+1} \sum_{j_s=l_{sa}+n-D-j_{sa}}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_i-k} \sum_{n_i=n+l_k}^{(n_i-j_s+1)} \sum_{n_{is}=n+l_k-j_s+1}^{n_{is}+j_s-j_i-l_k} \sum_{j_i+1}^{j_i+1} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}
\end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + 1 \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i - \mathbf{l}_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_{z=1}^{DOSD} = \sum_{k=0}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

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

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} \sum_{j_s=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{n}-\mathbf{n}-D-j_{sa}^{ik}+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - j_s - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+n-k+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-j_s+1)+j_i-l_k}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - l_i)!}.$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^s\} \wedge$$

$$s = j_s - \mathbb{k} = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{i=n+l_s}^n \sum_{j_s=n+l_s-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_s}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-\mathbf{n}-1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s} \in \{j_{sa}^s, \mathbb{k}, j_{sa}^{ik}\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{k}_Z: Z \rightarrow \mathbb{N} \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{l_i-1} \sum_{s=2}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=n+lk}^{n_{is}+j_s-j_i-lk} \frac{(l_i-k-1)!}{(l_i-k-j_s+1)! \cdot (j_s-2)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{l_i-1} \sum_{s=2}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=n+lk}^{n_{is}+j_s-j_i-lk} \frac{(l_i-k-1)!}{(l_i-k-j_s+1)! \cdot (j_s-2)!} \cdot$$

$$\sum_{n_i=n+lk}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-lk+1)} \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

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

$$\sum_{k=1}^{l-1} \sum_{(j_s=j_i-1)}^{(l_k+s-j_{sa}^{ik}+1)} \sum_{j_i=s+1}^{(n_i-j_s+1)}$$

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

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(n_i-j_s+1)} \sum_{j_i=s}^{(n_i-j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)}$$

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

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

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

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

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{l=0}^{i-1} \sum_{k=0}^{l-1} \sum_{j_s=1}^{l_{ik}-j_{sa}^{ik}+2} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+l_{ik}-j_s+1}^n \sum_{n_s=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(i - l - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=0}^l \sum_{j_s=1}^{l_i-l} \sum_{j_i=s}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!} \cdot$$

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

$$\sum_{k=1}^{l-1} \sum_{i=2}^{l-k} \sum_{j_i=j_s+1}^{n_i-j_s+1} \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_s - 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=n_i-j_s+1}^{n_i-j_s+1} \frac{(n_i - j_s - 1)!}{(n_i - j_s - 1)! \cdot (j_s - 1)!} \cdot$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l-1} \sum_{j_s=1}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

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

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

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

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{Z^2}^{QSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+1)} \sum_{j_i=l_i+n-D}^{(l_{ik}-k-j_{sa}^{ik}+1)} \sum_{n_i=n+k}^n \sum_{(j_i=n+k-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{ik}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - s + 1)!}{(l_s - j_s - \mathbf{k} + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - i l + 1} \sum_{j_i=l_i+\mathbf{n}-D}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

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

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-n-1)! \cdot (n-j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_s-1)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

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

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

$$s: j_{sa}^s, \mathbb{k}, j_{sa}^{ik} \in \mathbb{N}$$

$$s = 2 \wedge s = s + 1$$

$$\mathbb{k}_Z: Z \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=0}^{l-1} \sum_{j_i=l_i+n-D}^{(l_{ik}-k+l_{ik}+2)} \sum_{j_s=s-1}^{l_i-k+1} \sum_{n_i=n+l_{ik}}^{n-j_s+1} \sum_{n_s=n+l_{ik}-j_s+1}^{n_{is}+j_s-j_i-l_{ik}} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=0}^{l-1} \sum_{j_i=l_i+n-D}^{(l_i - l_{ik} + 1)} \sum_{j_s=s-1}^{l_i - l_{ik} + 1}$$

$$\sum_{n_i=n+l_{ik}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-l_{ik}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+1, \dots, D-s+1)}^{(l_{ik}-l_s+1, \dots, l_i+2)} \sum_{j_i=j_s+1}^{D-s+1} \sum_{j_s=1}^{n_i-j_s+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=1}^{n_i-j_s+1}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + 1 \leq j_i - s + 1 \wedge$$

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

$$l_i + s - 1 < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

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

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{ik} + \mathbf{n} + s - D - j_i^k} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\
& \frac{(n_i - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_i - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^k + 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_i} \sum_{j_s=1}^{(n-l_i)} \sum_{l_{ik}=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \frac{(n-l_i-j_s+1)!}{(n-l_i-j_s+1)!} \cdot \\
& \frac{(n-l_i-j_s+1)!}{(j_i - j_s - 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n-l_i-j_s+1)!}{(n-l_i-j_s+1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{j_s=j_i-s+1}^{(n-l_i)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \frac{(n-l_i-j_s+1)!}{(n-l_i-j_s+1)!} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n-l_i-j_s+1)} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

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

$$\begin{aligned} & \sum_{i=1}^{l-1} \sum_{j_s=1}^{(l_{ik}+s-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

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

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge \\
& l_i \leq D + s - \mathbf{n}) \vee \\
& ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge \\
& l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee \\
& ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\
& l_i \leq D + s - \mathbf{n}) \vee
\end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z^{SDOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{\mathbf{l}_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K} (n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - n_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K} (n_s=\mathbf{n}-j_i+1)}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{l-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{i_s}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()} \frac{(n_s+j_i-j_s)!}{(n_s+j_i-n-j_{sa}^s)!(n+j_{sa}^s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} -$$

$$\sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n+l_k}^n \sum_{(n_{ik}=n_{i_s}+j_{sa}^s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-s)!} \cdot \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-s)!}$$

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

$$1 \leq j_s \leq j_i-s+1 \wedge$$

$$j_s+s-1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D+s-n) \vee$$

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

$$1 \leq j_s \leq j_i-s+1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$(\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

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

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{i=1}^{l-1} \sum_{j_s=1}^{l-1} \sum_{j_i=1}^{l-1} \frac{(n_i - j_i - l_k + 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{j_s=2}^{l-1} \sum_{j_i=j_s+s-1}^{l-1} \frac{(n_i - j_s + 1)!}{(n_i - n_s - j_s + 1)!} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{()} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{\binom{D}{l_i}} \sum_{j_s=1}^{\binom{D}{l_s}} \sum_{j_i=1}^{\binom{D}{l_i}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{\binom{D}{l_i}} (n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1) n_s=n_{ik}+j_{sa}^{ik}-j_{sa}^s-\mathbb{K}$$

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

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

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

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

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

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$\begin{aligned} f_z S_{j_s}^{n,D} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\ &\sum_{n_i=n+l-\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\ &\sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - s + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l^{l+1}} \sum_{j_i=l_i+\mathbf{n}-D}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_s+s-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-s)!}{(l_s-j_s-\mathbf{n}-s-1)! \cdot (s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (n-j_{sa}^s)!}$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & D + s - \mathbf{n} < l_i \leq D + l_s - \mathbf{n} - 1) \vee \\ & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee \\ & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee \\ & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \end{aligned}$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DO} \sum_{k=1}^{i^{l-1}} \sum_{j_s=\mathbf{l}_i+n-D-s+1}^{(\mathbf{l}_i-n-D-s)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i^{l-1}} \sum_{j_s=\mathbf{l}_i+n-D-s+1}^{(\mathbf{l}_s-k+1)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - j_i - 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=0}^{l+1} \sum_{j_s=1}^{n-l_s} \sum_{j_i=l_i+n-D}^{n-l_i+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{n-l_i+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + 1 \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{sa}+s-k-j_{sa}+1} \sum_{j_i=l_i+\mathbf{n}-D} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-1}^{l_{sa}+k+1} \sum_{n_i=n+l_k}^{n-j_s+1} \sum_{n_s=n-j_i+1}^{j_i-l_k} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n}^n \sum_{n_i=n}^{(n-j_s+1)} \sum_{n_i=n}^{(n-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{()} \sum_{n_{ik}=n_{ik}+j_s}^{()} \sum_{n_{ik}=n_{ik}+j_s}^{()} \frac{(n_s - j_i - j_s - 1)!}{(n_s + j_i - n - j_{sa})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < n \wedge$$

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

$$D + s - 1 \leq l_i \leq D + j_i + s - n - 1 \wedge$$

$$D \geq n < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa}^s = j_{sa}^l + 1 \wedge$$

$$s; \{j_{sa}^s, \mathbb{k}, j_i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=0}^{l-1} \sum_{j_s=l_i+\mathbf{n}-D-s+1}^{a-k-j_{sa}+2} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D-l_i}{l_i}} \sum_{j_s=1}^{l_i-l_k+1} \sum_{j_i=l_i+n-D}^{l_i-l_k+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - j_s + 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{\binom{D-l_i}{l_i}}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-l_i-l_s} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-n_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-l_k+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{\binom{D-l_i}{l_i}}$$

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{j_s=1}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s}^{l_{ik}+s-k-j_{sa}^{ik}+1} \frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-j_s-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{i-1} \sum_{j_s=2}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} +$$

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

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

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

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

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$j_{sa}^{DOS} = \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=2)}^{(\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(n_i+j_s-j_i-\mathbb{k})}$$

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

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - \mathbf{n} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(D - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - j_s - s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l_s - k)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n + 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n + 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(j_i-1)+1} \sum_{j_i=\mathbf{l}_s+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_s+s-k-j_{sa}+1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})} \end{aligned}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

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

$$\sum_{j_s=1}^{l_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D + s - \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{j_s=1}^{l_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-j_i-l_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{j_i=k}^{(j_i-l_k+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

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

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_{ik}+s-k-j_{sa}^{ik})}^{l_{ik}+s-k-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k})}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i+j_s-j_i-\mathbb{k})} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-k-j_{sa}^{ik})}^{l_{ik}+k+1} \sum_{(n_i=n+\mathbb{k})}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$(\mathbf{l}_i - s + 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}} \frac{(n_i-j_s-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=\mathbf{l}_i+1, \dots, D-s+1)}^{(\mathbf{l}_{ik}-\mathbf{l}_i+1, \dots, \mathbf{l}_i+2)} \sum_{j_i=j_s+1}^{\mathbf{l}_i} \sum_{j_s=1}^{n_i-j_s+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}, \dots, n_i-j_s+1)}^{(n_i-j_s+1)}.$$

$$\sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}.$$

$$\sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}, \dots, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}.$$

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} \leq n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + 1 \leq j_i - s + 1 \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i > \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i + l_s - s + 1)! \cdot (j_i - j_s - s + 1)!}$$

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

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

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_i-s+1}^n \sum_{n_{ik}=\mathbf{n}+j_i-s+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{is}-j_{sa}^{ik}} \sum_{n_{ik}+j_s+1-\mathbb{k}-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s) \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge \mathbf{n} + j_{sa}^{ik} - l_{ik} \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$j_i > 2 \wedge \mathbf{s} > s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

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

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

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \\
& j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge
\end{aligned}$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s+j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}.$$

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

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge
\end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D-s)}^{(l_s+n-D-s)} \sum_{j_i=l_i+n-D}^{n-1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s-j_i-\mathbb{K})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - \mathbb{K} - 1)!}{(-j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

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

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

$$l_i > l_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-j+1)!}{(n_i-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-\mathbb{k}+1)}^{(l_s+l_s+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(l_s+l_s+s-j_{sa}+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(j_s=j_i-\mathbb{k}+1)}^{(l_s+l_s+s-j_{sa}+1)} \sum_{(j_i=l_i+\mathbf{n}-j_s+1)}^{(l_s+l_s+s-j_{sa}+1)}$$

$$\frac{(n_s - j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D - \mathbf{n} < n \wedge l_s > \mathbf{n} + 1) \wedge$$

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

$$2 \leq j_i - s - 1$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{n_i=n+j_s+1}^{(n+j_s+1)}$$

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

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < n \wedge$$

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

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

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

$$S: \{j_{sa}^s, \dots, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s \leq s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

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

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

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

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

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

$$\frac{(l_s-k-1)!}{(j_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(D-j_s+1)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{1, \dots, \mathbb{k}, j_{sa}^i\} \vee \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{n} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

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

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{n}}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

$$\left((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \right.$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} > 1 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

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

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

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

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

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$f_z^{S_{j_s, j_i}^{DOSD}} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s - s + 1)!}{(j_s + j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s - s + 1)!}{(j_s + j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{n_i=n}^n \sum_{n_i=n+j_s+1}^{(n+j_s+1)}$$

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

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i \leq n \wedge$$

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

$$l_s \leq D - n - n \wedge$$

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

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

$$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=s+1}$$

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

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

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(\cdot) \\ (n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-s)!} \cdot \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$DOSD_{j_s, j_i} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - l_i + 1} \sum_{j_i=s}$$

$$\sum_{n_i=n}^n \sum_{(j_i=k)}^{(j_i-k+1)} \sum_{j_i=k}^{(j_i+1)}$$

$$\frac{(n_i - j_i - k - 1)!}{(j_i - k - 2)! \cdot (n_i - j_i - j_i - k + 1)!} \cdot$$

$$\frac{(n_s - j_s - \mathbf{n} - 1)!}{(n_s - j_s - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot$$

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

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^i \sum_{(j_s=1)}^{(\cdot)} \sum_{j_i=s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_s^s} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-n-j_{sa}^s)!(n-s)!} \cdot \frac{(D-l_i)}{(D+s-n-j_s-1)!(n-s)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

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

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

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik} - j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} /$$

$$\mathbb{k}_Z, Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+l_i-k-j_{sa}^{ik})} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}}^{l_i-k-j_{sa}^{ik}}$$

$$\sum_{i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_i+n+\mathbb{k}-j_s+1)}^{(n_i+j_s-j_i-\mathbb{k})} \sum_{n_s=l_i-j_i+1}^{n_i-j_i+1}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^n$$

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

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_s - s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

$$D \geq n < n + 1 \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D - n + 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n + 1 \wedge \mathbb{k} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$\begin{aligned}
fzS_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{n_i=n+\mathbb{k}}^{n_i+j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=l_s+s-k+1}^n \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

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

$$\sum_{i=1}^D \sum_{j_s=1}^{l_i} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1} l_{ik}^{(j_s-1)} \cdot$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + 1 \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_s^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s-1}^{l_{ik}+n-k-j_s^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_i+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-\mathbb{k}} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(l_s-k+1)} \sum_{j_i=l_{ik}+n+s-D-j_s^{ik}}^{l_{ik}+s-l-j_s^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n+l_s-j_s-1}^n \sum_{n_i=n+l_s-j_s-1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{(n_{ik}+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \frac{(n_s + j_{sa}^{ik} - j_s - s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

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

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

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^i, \mathbb{K}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j=2)}^{(l_s-k+1)} \sum_{j_i=l_i-j_s-k+1}^{(l_i-k+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-1)}^{(n-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(j_i-\mathbb{k})} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+1}^n \sum_{(n_i=j_s+1)}^{(n_i=j_s+1)} \sum_{(n_i=j_s+1)}^{(n_i=j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_s-j_i-j_{sa}^{ik}}^{()} \sum_{(n_s+j_i-n-j_{sa})}^{()} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-n-j_{sa})! \cdot (n+j_{sa}-j_s-s)!} \cdot$$

$$\frac{(l_s-j_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

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

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+1}^{()} \sum_{(n_{ik}=n_i+j_{sa}^{ik}-j_s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{()}$$

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - n - j_{sa})! \cdot (n - s)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$(\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l} = \mathbb{K} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^{lk}, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^{lk}, \dots, j_{sa}^i, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = \mathbf{n} + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: \mathbf{n} + 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - \mathbf{l} - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=1)}^{(l_s-k+1)} \sum_{j_i=s}^{i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + j_i + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

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

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

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-}$$

$$\frac{(n_i - n_{is} - \mathbb{K} + 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - n_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i - i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$fz S_{j_s, j_i}^{DO} = \sum_{i=1}^{l_i} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} + 1)!}{(l_s - j_s - \mathbb{k} + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - s + 1)! \cdot (j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=1)}^{(l_s-k+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-l+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}
\end{aligned}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-\mathbf{n}-1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s > 0 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - n - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_i^i\} \vee \mathbf{s}: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{k}_Z: Z \neq 1 \Rightarrow$$

$$f_Z^{S_{j_s, j_i}^{DOSD}} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{s_a=k-2}^{(l_{sa}-k-j_{sa}+2)} \sum_{s=2}^{l_i-k+1} \sum_{j_i=j_s+2}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_i=n+l_{sa}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n+l_{sa}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=1}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_{sa}-j_s+1}^n \sum_{n_s=n+l_{sa}-j_s+1}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-\mathbb{k}+1)}^{(l_s+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbb{k}}^{(n_i-j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - j_i - j_s - s)!}{(n_i - j_i - j_s - s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

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

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

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

$$D + s - 1 \leq l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i - l_s} \sum_{(j_s=1)}^{l_i - l_s} \sum_{j_i=l_i+n-l_s}^{l_i - l_s + 1}$$

$$\sum_{n_i=n+l_s}^n \sum_{(j_i=l_s+1)}^{(j_i=l_s+1)}$$

$$\frac{(n_i - l_s - l_s - 1)!}{(j_i - l_s - 2)! \cdot (n_i - l_s - j_i - l_s + 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{l_s + s - \mathbf{n} - l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+l_s}^n \sum_{(n_{is}=\mathbf{n}+l_s-j_s+1)}^{(n_i-j_s+1)}$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

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

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

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

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

$$f_z^{SD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{l_{ik}-k-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s)} \sum_{j_i=n+\mathbb{k}-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1}$$

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

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-\mathbf{n}-1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{k}_Z: Z = \mathbf{n} \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

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

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_{sa}-D-j_{sa})}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(n_{is}+j_s-j_i-\mathbb{K})}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{(n_i=n+\mathbb{K})}^{(n-j_s+1)} \sum_{(n_s=n+\mathbb{K}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{K})} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - \mathbb{L})! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{(l_{sa}+s-i l-j_{sa}+1)} \sum_{(j_i=l_{sa}+\mathbf{n}+s-D-j_{sa})}^{(l_{sa}+s-i l-j_{sa}+1)}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_i)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \frac{(l_{ik}-k-1)!}{(j_s=l_{sa}+\mathbf{n}-j_{sa}+1) \cdot (j_i=j_s+1)} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \frac{(n_i-j_s+1)!}{(n_{is}-j_s+1)!} \cdot$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \frac{\binom{(\cdot)}{(\cdot)}}{\sum_{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}} \cdot$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_{sa} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

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

$$\begin{aligned} c_z S_{j_s, j_i}^{D, \mathbf{n}} &= \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+\mathbb{K}}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)}^{l_{sa}+s-k-j_{sa}+1} \sum_{j_i=l_s+s-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i^l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

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

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \frac{l_{sa}+s-k-j_{sa}+1}{(l_{sa}+s-k-j_{sa}+1)} \cdot \frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_{is}+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

GÜLDÜNYA

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

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

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

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

$$\sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}^{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-l_i-k+1}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D-s+1}^{j_i=l_i+n-D-s+1} \\
& \sum_{n_i=n-l_i}^n \sum_{n_{is}=n+l_k-j_s+1}^{n-l_i-j_s+1} \\
& \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n-l_i-j_{sa}^{ik}} \sum_{(n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n-l_i-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_{sa}^s - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n+1 \wedge n > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D \geq n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_s=\mathbf{l}_s+\mathbf{n}-D}^{l_s-k+1} \sum_{j_i=\mathbf{l}_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

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

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

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

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

$$\frac{(l_s-k-1)!}{(j_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(D-j_s+1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D \geq n < n \wedge I = j_s - 1 = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{1, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{(j_i=j_s+s-1)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - \mathbf{l})! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-l_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge \\ & D \geq n < n \wedge n = k = 1 \wedge \\ & j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\ & s: \{j_{sa}^s, j_{sa}^{ik}\} \\ & s \geq 2 \wedge s = s \Rightarrow \end{aligned}$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-D+1}^{D-\mathbf{n}+1} \sum_{j_s=l_s+\mathbf{n}-D}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_i+\mathbf{n}-D-s)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
& \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_i + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s+1)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{j_s=n+l_i-j_i+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(n_{ik})} \sum_{j_s=n_{ik}+j_s-i-k-j_i-j_{sa}^s-\mathbb{k}}^{(j_s+1)}$$

$$\frac{(n_s - j_s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < n \wedge$$

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

$$D \geq n < n \wedge I = \mathbb{k} = 1 \wedge$$

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

$$s: (j_{sa}^s, j_{sa}^i)$$

$$s \geq 2 \wedge s < s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}+1} \sum_{j_{sa}=\mathbf{n}-l_{sa}+k}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

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

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = j_s$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_s=l_i}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n_{is}+1}^n \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)} \sum_{n_{is}=n_{is}+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}.$$

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{k=1}^{D-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s)}^{(n_i-j_s+1)} \sum_{j_i=j_s+1}^{s+j_s-j_i}$$

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

$$\frac{(n_{is} - j_s - 1)!}{(n_{is} + j_s - s - j_i)!} \cdot$$

$$\frac{(n_{is} + j_i - n - 1)!}{(n_{is} + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(j_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

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

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

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=0}^{D-n+1} \sum_{l_i=l_{ik}+n-D-k+1}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

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

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{D,n} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}+1)}^{(n_i-j_s+1)} \sum_{j_i+1}^{n_s+j_s-j_i}$$

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

$$\frac{(n_{is} - \mathbf{n} - 1)!}{(j_s - j_i - 2)! \cdot (n_{is} + j_s - \mathbf{n} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D \geq n < n \wedge l = l_s = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{ \dots, j_{sa}^i \} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n_{is}+j_s-j_i}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^n$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}$$

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-j_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n \wedge$$

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

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=s+1}^{n_i-j_s+1} \sum_{n_i=n}^{n_{is}=n-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-j_{sa}^{ik}+2)}^{l_{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_i+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n-j_i} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+1}^n \sum_{(n_i=j_s+1)}^{(n_i=j_s+1)} \sum_{(n_i=j_s+1)}^{(n_i=j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_s-j_{sa}^{ik}+1}^{(\quad)} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-j_s-j_{sa}^{ik}+1)}^{(\quad)} \frac{(n_s - j_{sa}^{ik})!}{(n_s + j_i - n - j_{sa}^{ik})! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=n+1}^{(\quad)} \sum_{(n_{ik}=n_i+j_{sa}^{ik}-j_s-j_{sa}^{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{(\quad)}$$

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

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

$$D \geq n < n \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_i-n-j_s+1)}^{(n_i-i+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_i+j_s-j_i} \\ & \frac{(n_i-i-1)!}{(j_i-2)! \cdot (n_i-n-j_s+1)!} \cdot \\ & \frac{(n_i-n_s-1)!}{(j_i-i-1)! \cdot (n_s+j_s-n_s-j_i)!} \cdot \\ & \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\ & \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \\ & \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!} + \\ & \sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i-i} \sum_{j_i=s}^{l_i+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)} \\ & \frac{(n_i-n_s-1)!}{(j_i-2)! \cdot (n_i-n_s-j_i+1)!} \cdot \\ & \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot$$

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

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)}$$

$$\sum_{n_i=n+1}^n \sum_{n_i=n+1}^{(n-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^s-j_i-j_{sa}-l_k}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^s-j_i-j_{sa}-l_k)} \sum_{(n_s-j_{sa})}^{(n_s-j_{sa})} \cdot \frac{(n_s - j_{sa})!}{(n_s + j_i - n - j_{sa})! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

$$\sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(n-j_s+1)} \sum_{j_i=s}^{(n-j_s+1)}$$

$$\sum_{n_i=n+l_k}^{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)} \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-l_k}^{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}$$

$$\frac{(n_s - j_{sa})!}{(n_s + j_i - n - j_{sa})! \cdot (n - j_i)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{(j_s=2) \\ j_i=l_i-k-j_s+1-D}}^{(j_i-l_i-s+1)} l_{ik}^{l-k-j_{sa}^{ik}+1} \frac{\sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-n_{is}-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \dots$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z^{QSD} = & \sum_{k=1}^{\mathbf{n}-1} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq \mathbf{n} + l_s + s - \mathbf{n} - 1 \wedge$$

$$D > \mathbf{n} < n \wedge \mathbf{k} = \mathbb{k} = 0$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s} \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{i l - 1} \sum_{j_s=1}^{(l_s - n_{is})} \sum_{j_i=0}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{(i)} \sum_{j_s=1}^{(l)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-i l-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{n_s=n-j_i+1}^{(n_i - j_i + 1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=l_{ik}+\mathbf{n}+s-D+l_i-k)}^{l_s+s}$$

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

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

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i -$$

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

$$l_i + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D-l_i}{l_s}} \sum_{j_s=1}^{l_{ik}+s-l_i-l_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_i-l_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_i+1}^{n-j_i+1}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

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

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K}}^{\binom{D-l_i}{l_s}}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n) \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$l_i \leq D + s - n)) \wedge$$

$$n \leq D \wedge I = \mathbb{K} = 0 \wedge$$

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

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i=s+1}^{n_{is} + j_s - j_i} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(l_i - l_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - s)!} - \\
& \sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()}
\end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{\substack{(\quad) \\ (n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K}} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-l_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_i \leq D + s - \mathbf{n}) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$l_i \leq D + s - \mathbf{n}) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{zS} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n_{is}-1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i-i^l+1} \sum_{j_i=s} \\
 & \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot
 \end{aligned}$$

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

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

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

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

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

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

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{()} \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

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

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

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

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = \mathbb{K} = 0 \wedge$$

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

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-k} \sum_{j_i=l_i+n-D}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{j_s=2}^{(\mathbf{l}_s-1)} \sum_{j_i=\mathbf{l}_s+s-n}^{\mathbf{l}_i-1}$$

$$\sum_{n_i=n}^{(n_i-j_s)} \sum_{n_{is}=n-j_s+1}^{n_{is}+j_s-j_i}$$

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

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{j_s=1}^{(\mathbf{l}_s)} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_i-i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_s=\mathbf{n}-j_i+1}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{n_i=n}^n \sum_{n_{is}=n+l_s-j_s+1}^{(n_{is}=n+l_s-j_s+1)}$$

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

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + j_{sa}^{ik} - n < l_i \leq D + l_s + s - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \\ &\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

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

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i=n-j_i+1}^{n_{is}+j_s}$$

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

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - l_i - n - 1)!}{(n_s - l_i - n - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

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

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

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

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

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

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

$$D + s - \mathbf{n} < l_i \leq \mathbf{n} + l_s + s - \mathbf{n} - 1 \wedge$$

$$D > \mathbf{n} < n, \mathbf{n} = \mathbb{K} =$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s\} \cup \mathbb{N} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = j_{sa}^s$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{sa}+s-k-j_{sa}+1} \sum_{j_i=l_i+\mathbf{n}-D}^{n_{is}+j_s-j_i} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{s_a=2}^{(l_{sa}-k-j_{sa}+2)} \sum_{s=1}^{l_i-k+1} \frac{(n_i - j_s + 1)!}{(n_{is} - n - j_s + 1)!} \cdot \frac{(n_{is} + j_s - j_i)!}{(n_s - n - j_i + 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(i - l - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{s=1}^{(l_i - k - l + 1)} \sum_{j_i=l_i+n-D}^{l_i - k - l + 1} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-l_s+1)}^{(j_s=l_s+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(j_i=l_i+\mathbf{n}-j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=n_i-j_s+1)}^{(n_i-j_s+1)}$$

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

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

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

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

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

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

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

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

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

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_{i+1}}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{\mathbf{l}_i}} \sum_{(j_s=1)}^{\binom{D}{\mathbf{l}_i}} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_i-\mathbf{l}_i+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_i=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_i - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_i - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=\mathbf{l}_i+n-D-s+1)}^{(n-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

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

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{D}{\mathbf{l}_i}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{\binom{D}{\mathbf{l}_i}}$$

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

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

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

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i^{ik}+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{l_{sa}} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+\mathbf{n}+s-D-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-j_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}.$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s = l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s-1}^{l_{sa}+n-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n_{is}+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_i)} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_s - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(l_{sa}+s-i-l-j_{sa}+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(l_{sa}+s-i-l-j_{sa}+1)} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)} \frac{(n-j_s+1)!}{(n-j_s+1-j_i+1)! \cdot (j_s+1)!} \cdot \frac{(n_s - j_{sa}^{ik})!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(j_i-1)+1} \sum_{l_s=1}^{l_s+s-k-j_{sa}+1} \\ & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{(n_{is}+j_s-j_i)} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_s=1}^{l_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{l_s+s-k} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-j_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{l_i}} \sum_{j_s=1}^{l_{sa}+s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_i-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{n_i=n-j_i+1}^{(n_i-j_i+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_i - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - j_s - 1)!}{(l_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_{sa}+s-n-l_i} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_s-k-1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{\binom{D}{l_i}}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i - 1)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - 1)!}{(j_s + \mathbf{l}_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_s + s - \mathbf{n} - j_s + 1} \sum_{(j_s = j_i - 1)}^{(\quad)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{j_{sa}^{ik} + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_s = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(\quad)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(\quad)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}} \frac{(n_i-j_s+1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=\mathbf{l}_i+1, \dots, D-s+1)}^{(\mathbf{l}_{ik}-\mathbf{l}_i+1, \dots, \mathbf{l}_{ik}+2)} \sum_{j_i=j_s+1}^{\mathbf{l}_i}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} \leq n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + \mathbf{l}_i - 1 \leq j_i - \mathbf{l}_s$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + \mathbf{l}_s > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{n} \leq \mathbf{l}_i \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{ik}+n+s-k-j_{sa}^{ik}+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_i-s+1}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}+j_i-s+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{is}-j_{sa}^{ik}}^{\quad} \sum_{n_{ik}+j_s-j_i-j_{sa}^{ik}-\mathbb{k}}^{(\quad)} \frac{(n_s - j_{sa}^{ik})!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge \mathbf{n} + j_{sa}^{ik} - l_{ik} \wedge$$

$$\mathbf{n} \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: (j_{sa}^s, \mathbb{k}, j_{sa}^i) \in \mathbb{N} \wedge$$

$$s = 2 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}-\mathbf{n}+1} \sum_{j_i=\mathbf{n}-D-j_{sa}^{ik}+1}^{(l_s+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s^{is})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_s-j_s+1)!}{(n_s+j_s-\mathbf{n}-j_{sa}^s)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(D-\mathbf{n}+1)!}{(D+j_s-\mathbf{n}-l_i)! \cdot (n-j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i + l_s + j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_{is}=n+\mathbb{k}-j_s+1)} \\
& \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{(n_{is}=n+\mathbb{k}-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_{is}=n+\mathbb{k}-j_s+1)} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_{sa}^s - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge
\end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s)}^{(l_s+k+1)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i + s - \mathbf{n} - l_i} \sum_{(j_s = l_i + \mathbf{n} - s + 1)}^{(l_s - k + 1)} \sum_{j_i = j_s + s - 1}^{(n_i - j_s + 1)}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_i - j_s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-j+1)!}{(n_i-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(j_i-j-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i+l_s+1)}^{(j_s=l_{sa}+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(j_i=l_i+\mathbf{n}-j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D - \mathbf{n} < n \wedge l_s > \mathbf{n} + 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i - s \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$-j_{sa}^{lk} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(j_s+j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{n_i=n}^{(j_s+j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(j_s)} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s)} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s)} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s)}$$

$$\frac{(n_s - j_s)!}{(n_s + j_i - \mathbf{n} - j_{sa})! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < \mathbf{n} \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} + 1 > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l_i+1} \sum_{(j_s-j_{sa}+1)}^{(l_{ik}-k-j_{sa}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_s-j_s+1)!}{(n_s+j_s-n-j_{sa}^s)! \cdot (n-j_i)!}$$

$$\frac{(l_s-k-1)!}{(j_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(D-n+1)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = 1 \geq 0 \wedge$$

$$j_{sa}^i = j_{sa}^i - 1$$

$$s: \{1, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-l_k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-k-j_{sa}+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-\mathbf{l}_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} \geq 1 \wedge$$

$$j_s^s \leq j_{sa}^s - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = z \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{l_s=\mathbf{n}-D}^{l_s-k+1} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_s-j_s+1)!}{(n_s+j_s-\mathbf{n}-j_{sa})! \cdot (j_i-j_s+1)!} \cdot$$

$$\frac{(l_s-k-1)!}{(j_i-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-j_s+1)!}{(D+j_s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}$$

$$\left((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \right.$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \bigg) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDSD} S_{j_s, j_i} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + 1)!}{(j_s + j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + 1)!}{(j_s + j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{\mathbf{n}}$$

$$\sum_{n_i=n}^{\mathbf{n}} \frac{(j_s+1)!}{(j_s+1)!}$$

$$\sum_{n_{ik}=n_{is}+1}^{\mathbf{n}} \sum_{(j_s=n_{ik}+j_s-k-j_i-j_{sa}^s-\mathbb{k})}^{(\mathbf{n})} \frac{(n_s - j_s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa}^{ik} + j_{sa}^{ik} - l_{ik} \wedge$$

$$l_s \leq D - \mathbf{n} + 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} > 0 \wedge$$

$$j_{sa}^s = j_{sa}^l + 1 \wedge$$

$$\mathbf{s}; \{j_{sa}^s, \mathbb{k}, j_i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(\quad) \\ n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$DOSD_{j_s, j_i} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_s=1)}^{l_i - i} \sum_{j_i=s}^{l_i - i + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(j_i=\mathbb{K}+1)}^{(j_i-\mathbb{K}+1)}$$

$$\frac{(n_s - n_s - 1)!}{(i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - i - \mathbf{n} - 1)!}{(n_s - i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^n \sum_{l=1}^{(n)} \sum_{j_i=s}^{(n)}$$

$$\sum_{n_i=n+l}^n \sum_{(n_i=n+l)}^{(n)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_s^s}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \bullet s = s + \mathbb{K} /$$

$$\mathbb{K}_Z / Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+l_i-k-j_{sa}^{ik})} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}}^{l_i-k-j_{sa}^{ik}}$$

$$\sum_{i=n+l_k}^{(n_i-j_s+1)} \sum_{(n_i+n+l_k-j_s+1)}^{(n_{is}+j_s-j_i-l_k)} \sum_{j_i=n+l_k-j_i+1}^{(n_{is}-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(j_s - n_s - 1)!}{(j_i - j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i-n-D}^{l_{ik}+n-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{()}$$

$$\sum_{n_{ik}=n_{is}-j_s-j_{sa}^{ik}}^{()} \sum_{(n_{is}-\mathbb{k}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n+1 \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D - n + 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n+1 \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{j_s=1}^{l_i - l_i + 1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i-j_i-l_k)}^{(n_i-j_i-l_k)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(l_i - l_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{l_i+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(k-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{n_i = \mathbf{n} + \mathbb{k}}^{n_i + j_s + 1} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i = l_s + s - k + 1}^n \sum_{n_i = \mathbf{n} + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{n-l_i} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1} l_{ik}^{(j_s)} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(j_s=j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} l_{ik}^{(j_s)} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-j_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{k}: z = 1 =$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_{sa}^{ik}+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-l_k} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(j_s-k+1)}$$

$$\sum_{n_i=n+l_s-j_{sa}^{ik}+1}^n \sum_{(j_s=j_s+1)}^{(j_s-k+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{is}-j_i-j_{sa}^{is}-l_{ik}}^{(n_{ik}-j_{sa}^{ik}+1)} \sum_{(j_s=j_s+1)}^{(j_s-k+1)} \frac{(n_s - j_{sa}^{ik})!}{(n_s + j_i - n - j_{sa}^{is})! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j=2)}^{(i-k+1)} \sum_{j_i=l_i - k + 1}^{(i-k+1)} \\
& \sum_{n_i=\mathbf{n}+k}^n \sum_{(n_{is}=\mathbf{n}+k-1)}^{(n-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(j_i-k)} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_s - 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{(i)} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=\mathbf{n}+k}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -$$

$$\sum_{k=1}^{i_l-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k} \sum_{n_i=n+1}^n \sum_{(n_i=n+1)}^{(n-j_s+1)} \sum_{(n_i=n+1)}^{(n-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}-j_s-j_i-j_{sa}^s-k}^{()} \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{i_l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+1}^{()} \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{()}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$(\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 2 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: \mathbf{n} \geq 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - n - s + 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{j_s=1}^{l_s-k+1} \sum_{j_i=s}^{i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{j_s=2}^{l_s-k+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \\
& \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-\mathbf{n})!} \cdot \\
& \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!} \cdot \\
& \sum_{i=1}^n \sum_{(j_s=1)}^n \sum_{j_i=s}^n \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_{sa}^{ik}+1)}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \\
& \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot \\
& \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1) \wedge$$

$$1 \leq j_s \leq j_i - s + 1) \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K} (n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - n_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i - i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K} (n_s=\mathbf{n}-j_i+1)}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(n_s-j_s+1)!}{(n_s+j_s-n-j_{sa})! \cdot (j_i-j_s)!} \cdot \\
& \frac{(l_s-k-1)!}{(j_i-k+1)! \cdot (j_s-2)!} \\
& \frac{(D)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DO} = \sum_{i=1}^i \sum_{(j_s-2)}^{(\mathbf{l}_i + \mathbf{n} - D - s)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - k + 1} \\ \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{n_i - j_s + 1} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s = \mathbf{l}_i + \mathbf{n} - D - s + 1)}^{(\mathbf{l}_s - k + 1)} \sum_{j_i = j_s + s - 1}^{\mathbf{l}_i - k + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l^{l+1}} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i - l^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-\mathbf{n}+1)! \cdot (n-j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_s + j_{sa} - s > 0 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - n - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: (j_{sa}^s, \mathbb{k}, j_{sa}^{ik}) \in \mathcal{S}$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k}_Z: Z \rightarrow \mathbb{N} \Rightarrow$$

$$f_Z^{S_{j_s,j_i}^{DOSD}} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$
$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$
$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$
$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$
$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} +$$
$$\sum_{k=1}^{i^{l-1}} \sum_{\ell=2}^{(l_{sa}-k-j_{sa}+2)} \dots + \sum_{\ell=k+1}^{l_i-k+1} \dots - j_{sa}+2$$
$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^{\mathbf{n}} \dots - j_s+1) \quad \sum_{n_{is}=j_s-j_i-\mathbb{K}}^{n_{is}+j_s-j_i-\mathbb{K}}$$
$$\sum_{n_s=\mathbf{n}-j_i+1}^{n_s=\mathbf{n}+\mathbb{K}-j_s+1}$$
$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$
$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$
$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$
$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$
$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$
$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$
$$\sum_{k=i}^{\binom{()}{i}} \sum_{(j_s=1)}^{l_i-i} \sum_{j_i=l_i+\mathbf{n}-D}^{l^{l+1}}$$
$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-l_s+1)}^{(j_s=l_s+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{j_i=l_i+\mathbf{n}-j_s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=n_i)}^{(n_i-j_s+1)} \sum_{(n_i=n_i)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - 1 \leq l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=1}^{l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i} \sum_{j_i=l_i+n-l_s}^{l_i+l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=j_i-l_k+1)}^{(n_i=j_i+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+l_k}^n \sum_{(n_{is}=\mathbf{n}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{l_{ik}-k-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{n_i=n+k}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - s + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{i=1}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - \mathbf{n} - 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_{sa} + j_{sa} - s = \mathbf{n} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \int_{j_{sa}^s, \mathbb{k}, j_{sa}^{ik}}^{j_{sa}^s, \mathbb{k}, j_{sa}^{ik}}$$

$$s = 2 \wedge s = s + 1$$

$$\mathbb{k}_Z: Z \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_{sa}-D-j_{sa})}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(n_i=n+l_k)}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{(n_s=n+l_k-j_s+1)}^{(n_{is}+j_s-j_i-l_k)} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{(l_{sa}+s-i l-j_{sa}+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \frac{(l_{ik}-k-1)!}{(j_s=l_{sa}+n-l_i-j_s+1) \cdot (j_i=j_s+1)}.$$

$$\sum_{n_i=n+l_k}^n \frac{(n_i-j_s+1)!}{(n_{is}-j_s+1)!}.$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \frac{\binom{()}{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}}{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!}.$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_s \leq l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} c_z S_{j_s, j_i}^{D, \mathbf{n}} &= \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)}^{l_{sa}+s-k-j_{sa}+1} \sum_{j_i=l_s+s-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (n_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i^l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_s+j_{sa}^s-j_{sa}^{ik})!}{(n_s+j_{sa}^s-j_{sa}^{ik}-j_s+1)! \cdot (n-j_{sa})!} \cdot$$

$$\frac{(l_s+k-1)!}{(j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D+j_{sa}-\mathbf{n}-l_i)!}{(D+j_{sa}-\mathbf{n}-l_i)! \cdot (n-j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \frac{(l_{sa}+s-k-j_{sa}+1)!}{(l_{sa}+s-k-j_{sa}+1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^{(j_s - l_s + s - i)l_{sa} + 1} \sum_{j_s = l_{sa} + \mathbf{n} + s - D - j_{sa} + 1}^{(j_s - l_s + s - i)l_{sa} + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_i - j_i - \mathbb{k} + 1)}^{(n_i - j_i - \mathbb{k} + 1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(j_s-j_i+1)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z^{S_{j_s, j_i}} = \sum_{k=1}^{n+1} \sum_{(j_s - l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(j_i - s - 1)} \sum_{j_i = l_i + n - D}^{l_{ik} + s - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{\mathbf{l}_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - \mathbf{n} - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i+n-j_s+1)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(n - l_i)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - n - l_i} \sum_{(j_s = l_i + k - s + 1)}^{(l_{ik} - k - j_{sa})} \sum_{j_i = j_s + s - 1}^n \\
& \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(\quad)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{(\quad)} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_s + j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+l_s-D-j_{sa}^{ik}}^{l_s+s-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}} \\ \frac{(n_i-j_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}-j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(n_s-1)!}{(l_s-k-1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \\ \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$\mathbf{l}_s \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + \mathbf{l}_s - 1 \leq j_i \leq$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + \mathbf{l}_s > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i > \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_s - s + 1)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(j_s-j_s+1)}$$

$$\sum_{n_i=n+l_i-j_i}^n \sum_{n+l_i-j_i}^{(j_s-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{is}-j_{sa}-j_i-j_{sa}^s-k}^{(n_{ik}-j_{sa}-j_i-j_{sa}^s-k)} \sum_{(n_{ik}-j_{sa}-j_i-j_{sa}^s-k)}^{(n_{ik}-j_{sa}-j_i-j_{sa}^s-k)} \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-s+1)} \sum_{j_i=l_i-n+D}^{s-k} \frac{(n_i-j_s+1) \sum_{n_i=n+\mathbb{K}}^{n_i=n+\mathbb{K}-j_s+1} \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{K}} \sum_{j_i+1}^{j_i+1} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{K}-1)!}{(j_i-n_{is}-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{K})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=2}^{l_s+s-\mathbf{n}-j_i} \sum_{n_i=\mathbf{n}+j_s+1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \cdot$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{l_s+n-D-s} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)! \cdot (i_s - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=\mathbf{l}_i+\mathbf{n}-D-s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^n \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i)}^{(j_s=j_i)} \sum_{j_{sa}=n-D}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n+1}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k})}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_i > D - \mathbf{n} + 1 \wedge$$

$$D - \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge l_i = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-l_s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s+j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_{is}=j_s+s-1}^{j_{is}=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}}^{s_{sa}-j_{sa}^{ik}} \sum_{(n_{is}=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{sa}^s - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_i > D - j_i + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_s - j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D > l_i < \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is}+j_{sa}^s)!}{(\mathbf{n} - j_s)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - \mathbb{k})!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa} + \mathbb{k} = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I - \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{S}: \{j_{sa}^s, \dots, l_{sa}^{i_s}\} \vee \mathbf{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > i_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1} \\
& \sum_{n=1}^n \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - \mathbf{n} - 1)! \cdot (n - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \big) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is}+j_{sa}^s)!}{(n_{is}+j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - n_{is})!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee
\end{aligned}$$

$$\begin{aligned}
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee
\end{aligned}$$

$$\begin{aligned}
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge
\end{aligned}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D-j_{sa})}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-j_s+1)!}{(n_i-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! (n - j_i)!}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} (l_s-l_i) \sum_{(j_s=l_{sa}+n-j_{sa}+1) \atop j_i=j_s+1}^{(l_s-l_i)} \Gamma_{i,j_s}^{(k)} \Gamma_{i,j_s}^{(k)}$$

$$\sum_{i=1}^n \sum_{j=1}^{n_i-j_s+1} \dots$$

$$\sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{i_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\cdot)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \leq n \wedge l_s \leq D \rightarrow n + 1$$

$$1 \leq j_s \leq j_{s-1} - s + 1 \wedge$$

$$j_s + 1 \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + \dots = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$< D + \dots - n \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=s+1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{ik} - k + 1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i - k + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - l_s} \sum_{j_i=s}^{l_i - l_s + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=j_i-\mathbb{k}+1)}^{(n_i=j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - j_i - \mathbb{k} - 1)!}{(j_i - s - 2)! \cdot (n_i - j_i - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(n_s + j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{l_i-k-s-j_{sa}^{ik}+1} \sum_{j_i=s+1}^{l_i-k-s-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^n \sum_{l=1}^{(n)} \sum_{j_i=s}^{(n)}$$

$$\sum_{n_i=n+l}^n \sum_{(n_i k=n_l+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(n)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_s^s} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot \frac{(D-l_i)}{(D+s-n_{ik}-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i + 1)!} + \\
& \sum_{k=1}^{l_i - l_s} \sum_{(j_s=1)}^{l_i - l_s + 1} \sum_{l_i=s}^{l_i - l_s + 1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i - j_i + 1)} \\
& \frac{(n_i - l_s - l_i - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i - l_i + 1)!} \cdot \\
& \frac{(n_s + j_i - \mathbf{n} - 1)!}{(\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - s + 1)!}{(l_s + 1)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} - \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^n \sum_{i=1}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{()}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}-j_i-j_{sa}-\mathbb{k}}$$

$$\frac{(n - j_{sa}^s)!}{(n_s + j_i - n - j_s - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge$$

$$S = \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^{ik}\} \vee S = \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_Z: Z = \dots \Rightarrow$$

$$f_Z^{S_{j_s, j_i}^{DOSD}} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{s=2}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{s=1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{s=1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-\mathbb{k}+1)}^{(l_{ik}+s-j_{sa}^{ik}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(n_{ik}+s-j_{sa}^{ik}+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}+j_{sa}^s-j_{sa}^{ik}-s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \sum_{j_s=j_i-\mathbb{k}+1}^{(n_{is}+j_{sa}^s-j_{sa}^{ik}-s)}$$

$$\sum_{(n_{is}+j_{sa}^s-j_{sa}^{ik}-s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}+j_{sa}^s-j_{sa}^{ik}-s)} \sum_{j_s=j_i-\mathbb{k}+1}^{(n_{is}+j_{sa}^s-j_{sa}^{ik}-s)}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i -$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_{ik} + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_s + 1} \sum_{j_i=n-D}^{n-D} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_s+1)} \\
& \frac{(n_i - l_s - l_k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - l_k + 1)!} \cdot \\
& \frac{(n_s + j_i - n - 1)!}{(n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$f_{Z \cup j_i}^{QSD} = \sum_{k=1}^{l_i - \mathbf{l}_s - s + 1} \sum_{j_s=2}^{\mathbf{l}_s + s - k} \sum_{j_i = \mathbf{l}_{ik} + \mathbf{n} + s - D - j_{sa}^{ik}}^{\mathbf{l}_s + s - k} \\ \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-k+1}^{n_i+j_s-j_i-\mathbb{k}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_{ik}+s-i^l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_i-j_i-\mathbb{k}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_s+s-1)!}{(n_s+j_s-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s+k-1)!}{(j_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(D-n+1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge$$

$$D + s - n < l_i \leq l_i + l_s + s - n - 1 \wedge$$

$$D > n < n \wedge \mathbb{k} > 0$$

$$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa} - \mathbb{k} \wedge$$

$$\mathbb{k}_{s+1} = s + 1$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^n \sum_{j_s=1}^{n-D-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - j_s + 1)!}{(n_{is} + j_s - n - j_s + 1)!} \cdot \frac{n_{is} + j_s - j_i - \mathbb{k}}{n_s - j_i + 1} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^n \sum_{j_s=1}^{n-D-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_i-j_{sa}^{ik}+1}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \\
& \frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{j_s=1}^{D+l_s+s-\mathbf{n}} \sum_{(j_s=\mathbf{n}-D-j_{sa}^{lk}+2)}^{(l_s-k+1)} \sum_{j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}) \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D - \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s - s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l_s - l_i > 0 \wedge$$

$$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^s \leq j_i^{ik} - 1 \wedge$$

$$S: \{j_{sa}^s, \dots, j_{sa}^i\} \vee S: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > i - \mathbb{k} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)} l_{s+s-k} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_s-1} \sum_{j_s=2}^{\mathbf{l}_s-k+1} \sum_{j_i=\mathbf{l}_s+s-k+1}^{\mathbf{l}_s-1}$$

$$\sum_{i=1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\mathbf{l}_i} \sum_{j_s=1}^{\mathbf{l}_i-k} \sum_{j_i=s}^{\mathbf{l}_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \\
& \frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} - \\
& \sum_{i=1}^{l-1} \sum_{(j_s=j_i-s)}^{l-1} \sum_{i=s+1}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{is}=n_{ik}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} - \\
& \sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
&\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - l - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - l)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i - l^{l+1}} \sum_{j_i=s} \\
&\sum_{n_i=n+l}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l+1)} \\
&\frac{(n_i - n_s - l - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - l + 1)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
&\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s^{s-1})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!} \cdot$$

$$\sum_{k=i^l} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(\quad)} \sum_{n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\mathbf{n}-j_{sa}^s)! \cdot (\mathbf{n}-j_i)!} \cdot$$

$$\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-k} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i^{l-1} (l_s - 1)} \sum_{j_s=2}^{l_i - i^{l+1}} \sum_{j_i=l_s+s-n}^{n-j_i-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^{n_i-j_i+1} \sum_{(n_i+\mathbb{K}-j_s+1)}^{n_i+j_s-j_i-\mathbb{K}} \sum_{j_i+1}^{n_i-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_{ik}=n-D}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+l_s-j_s+1}^{(n_{is}=n+l_s-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{(n_{ik}=n_{is}-j_{sa}^{ik})} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(n_{ik}=n_{is}-j_{sa}^{ik})}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < D + l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < D + l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i + \mathbf{n} - D - s)} \sum_{j_i = l_i + \mathbf{n} - D}^{l_i - k + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_i - 1)! \cdot (n_s + j_s - n_s - i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(D - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^i \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{ik}-l_{sa}-\mathbb{k})} \frac{(n_{ik}+j_{sa}^s)!}{(n_{ik}+j_s+j_{sa}^{ik}-l_{sa}-\mathbb{k})! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - n_{ik} - j_{sa}^s)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
& D + s - n < l_i \leq D + l_s - n + 1 \wedge \\
& D \geq n < n \wedge I = \mathbb{k} > 1 \wedge \\
& j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\
& s > 2 \wedge \mathbf{s} = \dots + \mathbb{k} \wedge
\end{aligned}$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{(l_{sa}-j_i-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{\binom{D-l_i}{j_i-s+1}} \sum_{j_i=l_i+n-D}^{l_i-l_i+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - l_k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - l_k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - j_s - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-l_i} \sum_{j_i=l_i-s+1}^{\binom{D-l_i}{j_i-s+1}} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{\binom{D-l_i}{j_i-s+1}} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (l_i + \mathbf{n} - D - s)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_i - D}^{n} \sum_{n_i = \mathbf{n} + \mathbb{k}}^{(n_i - j_s)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_s + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - j_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - n_{is} - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s = l_i + \mathbf{n} - D - s + 1)}^{l_i - k + 1} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = \mathbf{n} + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_s + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{j_s=1}^{l_i-k} \sum_{l_i+n-D}^{l_i-k+l_s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned} \sum_{j_s, j_i}^{OSD} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ &\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s)}^{(n_i-j_s+1)} \sum_{(n_i-j_s-j_i-\mathbb{K})}^{(n_i-j_s-j_i-\mathbb{K})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 1)! \cdot (n_i - n_s - j_s - j_i - \mathbb{K})!}$$

$$\frac{(n_i - j_i - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(j_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i^l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i=\mathbb{k})}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i=\mathbb{k})} \\
& \frac{(n_{is}+j_{sa}^s)!}{(n-j_s-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k})!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^i + 1 = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + s - n < l_i \leq D + l_s + 1 - n \leq 1 \wedge \\
& D \geq n < n \wedge l = \mathbb{k} > 1 \wedge \\
& j_{sa}^{lk} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
& s: \{j_{sa}^i, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\
& s > 2 \wedge s = 1 + \mathbb{k} \wedge
\end{aligned}$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-j_i+1}^{l_i-1} \frac{(l_{ik} - l_{sa} + i_{sa}^k + 2)}{(l_{ik} - l_{sa} - D - j_{sa} + 1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{\infty} \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_s=n-j)}^{(n_i-j_i-k+1)} \\
& \frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - j_s - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
& \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^i, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s}^{l_{sa}+s-i-l-j_{sa}+1} \frac{(j_s - k + 1)!}{(j_s - k + 1)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-1)}^{(n-j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k} \frac{(n_i - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{(j_s=1)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1} \frac{(n_i - j_i - k + 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_i=n}^{(j_s+1)} \sum_{n_i=n}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(\quad)} \sum_{n_{ik}=n_{ik}+j_s}^{(\quad)} \sum_{n_{ik}=n_{ik}+j_s}^{(k-j_i-j_{sa}^s-k)}$$

$$\frac{(n_s - j_s)!}{(n_s + j_i - n - j_{sa}^s)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{D+l_s+s-n-l_i} \sum_{j_s=l_{sa}}^{l_s-k-1} \sum_{j_i=j_s+s-1}^{l_{sa}+n-D-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+n-D-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-j_i)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l_s+s-n-j_i} \sum_{(j_s=j_i-1)}^{(j_s=j_i-1)} \sum_{j_i=l_i+n-D}^{j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-l_i-k+1}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_i+s-1}^{(n-j_s+1)} \\
& \sum_{n_i=n-l_i}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n-l_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{(n-l_i-j_s+1)} \sum_{(n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n-l_i-j_s+1)} \\
& \frac{(2 \cdot n_{is} - j_s - n_s - j_i - n - 2 \cdot l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n_{ik} > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n_{ik} \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l \wedge$$

$$s \in \{j_{sa}, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_Z^{SDSD}_{j_s, j_i} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_s=\mathbf{l}_s+\mathbf{n}-D}^{l_s-k+1} \sum_{j_i=\mathbf{l}_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{(\cdot)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s + j_{sa}^{ik})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s + j_{sa}^{ik})! \cdot (n + j_{sa}^s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - l_k - j_s + 1)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge$$

$$D \geq n < n \wedge I = j_s - 1 = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{j_s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge j_s = s \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}
\end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - \mathbf{l})! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - l_i)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = \mathbb{k} = 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^{l_s} + 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-D+1}^{D-\mathbf{n}+1} \sum_{j_s=l_s+\mathbf{n}-D}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2)}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1) \cdot (n + j_{sa}^s - s)!} \cdot \\
& \frac{(l_s + k - 1)!}{(j_i - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_i+\mathbf{n}-D-s)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-k+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_i + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s+1)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-}^{(j_s+1)} \\
& \sum_{n_i=n}^n \sum_{j_s=n+l_i-j_i}^{(j_s+1)} \\
& \sum_{n_{ik}=n_{is}+1}^{(n_{ik}+1)} \sum_{j_s=n_{ik}+j_s}^{(j_s+1)} \sum_{j_i=j_s+s-}^{(j_s+1)} \\
& \frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - \mathbb{k} - j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge n + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: (j_{sa}^s, j_{sa}^i)$$

$$s \geq 2 \wedge s < s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}+1} \sum_{(l_{sa}=\mathbf{n}-j_s+2)}^{(l_{sa}-k-j_s+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2)}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s) \cdot (n + j_{sa} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik} \wedge l_{ik} + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge n = \mathbb{k} = 0$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = j_s$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_s=l_i}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n_{is}+1}^n \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)} \sum_{n_{is}=n_{is}+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s = l_s \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{k=1}^{D-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s-j_i+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_s-j_i+1)}^{(n_s+j_s-j_i)} \\
& \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - j_s - 1)!}{(n_{is} + j_s - s - j_i)!} \cdot \\
& \frac{(n_i - j_i - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=0}^{D-n+1} \sum_{l_i=l_{ik}+n-D-k+1}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{n, D}^{(s)} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n+1)}^{(n_i-j_s+1)} \sum_{j_i+1}^{n_s+j_s-j_i} \\
& \frac{(n - n_{is} - 1)!}{(j_s - 2)! \cdot (n - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = l_s = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{ \dots, j_{sa}^i \} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}}$$

$$\sum_{n_i=n_{is}+\mathbf{n}+1}^n \sum_{n_{is}=n_{is}+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s =$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=s+1}^{n_i - j_s + 1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n} - j_s + 1)}^{n_{is} + j_s - j_i} \sum_{n_s=\mathbf{n} - j_i + 1}^{(n_i - n_{is} - 1)!} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-j_{sa}^{ik}+2)}^{l_{ik}+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_i+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n-j_i} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} - \\
& \sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+1}^n \sum_{(j_s=j_i+1)}^{(n-j_s+1)} \sum_{n_i=n+1}^{n-j_s+1} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_s-j_i-j_{sa}^{ik}+1}^{(\quad)} \sum_{(j_s=j_i+1)}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - j_i - n - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}^{(\quad)} \\
& \sum_{n_i=n+\mathbb{k}}^{(\quad)} \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)} \\
& \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=n}^n \sum_{(n_i=n-j_s+1)}^{(n_i-i+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i} \\ & \frac{(n_i-i-1)!}{(j_i-2)! \cdot (n_i-n-j_s+1)!} \cdot \\ & \frac{(n_i-n_s-1)!}{(j_i-i-1)! \cdot (n_s+j_s-n_s-j_i)!} \cdot \\ & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\ & \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \\ & \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \\ & \sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i-i} \sum_{j_i=s}^{l_i+1} \\ & \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\ & \frac{(n_i-n_s-1)!}{(j_i-2)! \cdot (n_i-n_s-j_i+1)!} \cdot \\ & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \\
& \sum_{n_i=n+1}^n \sum_{n_s=n+1}^{(n-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_s-j_i-j_{sa}^s-2 \cdot \mathbb{k}}^{(n-j_s+1)} \sum_{(j_s=1)}^{(n-j_s+1)} \\
& \frac{(2 \cdot n_{is} + j_s - j_i - n - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(n-j_s+1)} \sum_{j_i=s}^{(n-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^{(n-j_s+1)} \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(n-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n-j_s+1)} \\
& \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{(j_s=2) \\ j_i=l_i-k-j_s+1-D}}^{(j_i-l_i-s+1)} l_{ik}^{l-1} \frac{(j_s-k-j_s+1)}{(j_s-k-j_s+1)!} \cdot \frac{(n_i-n_{is}-j_s+1)}{(j_s-k-j_s+1)!} \cdot \frac{(n_{is}-j_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_s^{ik}+2)} l_{i-k+1}^{l-1} \sum_{j_i=l_{ik}+s-k-j_s^{ik}+2}^{l_{i-k+1}} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \dots$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \frac{(n_i - j_i + 1)!}{\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}} \cdot \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot
\end{aligned}$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz_{\mathbf{s}}^{QSD} = \sum_{k=1}^{\mathbf{l}_i + \mathbf{n} - D - s} \sum_{(j_s=2)}^{\mathbf{l}_i - k + 1} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}$$

$$\sum_{n_i = \mathbf{n}}^n \sum_{(n_{is} = \mathbf{n} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^{ik} + j_{sa}^s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - \mathbb{k})!}{(D + j_s - \mathbf{n} - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq \mathbf{n} + l_s + s - \mathbf{n} - 1 \wedge$$

$$D > \mathbf{n} < n \wedge \mathbf{n} = \mathbb{k} = 0$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s} \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s$$

$$\begin{aligned}
fz_{j_s, j_i}^{S_{DOSD}} &= \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{(j_i - s + 1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{i l - 1} \sum_{j_s=1}^{(l_s - n_{is})} \sum_{j_i=0}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s=n - j_i + 1}^{n_{is} + j_s - j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{i l} \sum_{j_s=1}^{(l_s - n_{is})} \sum_{j_i=l_{ik} + n + s - D - j_{sa}^{ik}}^{l_{ik} + s - i l - j_{sa}^{ik} + 1} \\
& \sum_{n_i=n}^n \sum_{n_s=n - j_i + 1}^{(n_i - j_i + 1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s)}^{()} \sum_{(j_i=l_{ik}+\mathbf{n}+s-D+l_s+k)}^{l_s+s} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \cdot$$

$$\sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \cdot$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i -$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_{zS} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_s - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{l}} \sum_{(j_s=1)}^{l_{ik}+s-1} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{lk}+1}^{l-j_{sa}^{lk}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_i=n+\mathbb{K}-j_i+1)}^{n-j_i+1}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{lk}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_i=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{K})}^{\binom{D}{l}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{K})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n) \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 > l_s) \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$n \leq D \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1) l_s + s - k} \sum_{(j_s=2)} \sum_{j_i=s+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1) l_i - k + 1} \sum_{(j_s=2)} \sum_{j_i=l_s+s-k+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i_{l+1}}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_i + j_i - n_s - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - j_i - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - s)!} -$$

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{K})!}{(n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{K} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(\cdot) \\ (n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - \mathbf{n})!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_{zS} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n_{is}-1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^l + 1} \sum_{j_i=s} \\
 & \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (\mathbf{n} + s - j_s - s)!}$$

$$\frac{(l_s - k)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{()}\sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{()}\sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-k} \sum_{j_i=l_i+n-D}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i^{l-1}(\mathbf{l}_s - \mathbf{l}_i - k + 1)} \sum_{j_i=2}^{\mathbf{l}_i - i^{l-1} + 1} \sum_{j_i=\mathbf{l}_s + s - \mathbf{l}_i}^{\mathbf{l}_i - i^{l-1} + 1}$$

$$\sum_{n_i=\mathbf{n}}^{(n_i - j_s)} \sum_{n_{is}=\mathbf{n} - j_s + 1}^{n_{is} + j_s - j_i} \sum_{j_i+1}^{\mathbf{l}_i - j_i + 1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{j_s=1}^{(\mathbf{l}_s - \mathbf{l}_i - k + 1)} \sum_{j_i=\mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - i^{l-1} + 1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_s=\mathbf{n} - j_i + 1}^{(n_i - j_i + 1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+l_s-j_s+1}^{(n_{is}=n+l_s-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})} \sum_{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})}$$

$$\frac{(2 \cdot n_{ik} + j_s - n_s - j_i - 2 \cdot l_s)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - 2 \cdot l_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \\ &\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{is}=n-j_i+1}^{n_{is}+j_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - l_i - n - 1)!}{(n_s - l_i - n - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2)}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s) \cdot (\mathbf{n} + j_{sa} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_i - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D)}{(D + j_s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{ik} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq \mathbf{n} + l_s + s - \mathbf{n} - 1 \wedge$$

$$D > \mathbf{n} < n, \mathbf{n} = \mathbb{k} =$$

$$j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = j_{sa}^i - j_{sa}^s$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa}+s-k-j_{sa}+1} \sum_{j_i=l_i+\mathbf{n}-D} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} + \frac{(\mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i^{l-1}} \sum_{j_s=2}^{(\mathbf{l}_{sa}-k-j_{sa}+2)} \sum_{j_i=1}^{\mathbf{l}_i-k+1} \sum_{n=n_{is}+j_s-j_i}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} + \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=i^l}^{(\quad)} \sum_{j_s=1}^{\mathbf{l}_i-i^{l+1}} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-l_s+1)}^{(j_s=l_s+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(j_i=l_i+\mathbf{n}-j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=n_i+\mathbb{k})}^{(n_i-j_s+1)} \sum_{j_s=j_s+1}^{(j_s=j_s+1)}$$

$$\sum_{(n_i=n_i+\mathbb{k})}^{(n_i=n_i+\mathbb{k})} \sum_{(n_i=n_i+\mathbb{k})}^{(n_i=n_i+\mathbb{k})} \sum_{(n_i=n_i+\mathbb{k})}^{(n_i=n_i+\mathbb{k})}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - 1 \leq l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_{i+1}}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{j_s=1}^{(n_i - j_i + 1)} \sum_{j_i=l_i + \mathbf{n} - D}^{l_i - i + 1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_i - j_i + 1)}^{(n_i - j_i + 1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - j_i + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(n_i + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_i - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{l_s + s - \mathbf{n} - l_i} \sum_{(j_s = l_i + \mathbf{n} - D - s + 1)}^{(n - k - j_{sa} + 2)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i=\mathbf{n} + \mathbb{k}}^n \sum_{(n_{is}=\mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - l_i)!} \sum_{(n_s=\mathbf{n}_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - l_i)!}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-1)+1} \sum_{j_i=l_{ik}+s-k-j_{sa}+1}^{l_{ik}+s-k-j_{sa}+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - \mathbf{n} + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{l_{sa}} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+\mathbf{n}+s-D-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s =$$

$$S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s-1}^{l_{sa}+n-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n_{is}+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)-j_i} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_s - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(l_{sa}+s-1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-1} \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)} \\
& \sum_{n_i=n+l_s-j_s-1}^n \sum_{(j_s+1)}^{(j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{is}-j_{sa}-j_{sa}^{ik}-j_s-1}^{(n_{ik}+j_{is}-j_{sa}-j_{sa}^{ik}-j_s-1)} \sum_{(j_s+1)}^{(j_s+1)} \\
& \frac{(2 \cdot n_{is} + j_s - j_i - n - 2 \cdot k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s)!} \cdot \frac{(n + j_{sa}^s - j_s - s)!}{(l_s - k - 1)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(j_i-1)+1} \sum_{j_i=\mathbf{n}+\mathbf{s}-D-j_{sa}}^{\mathbf{l}_s} \\ & \sum_{n_i=\mathbf{n}}^{(n_i-j_s+1)} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_s+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_s+s-k-j_{sa}+1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_s=1}^{l_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n+s-D-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D > \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{\mathbf{l}_i}} \sum_{(j_s=1)}^{\mathbf{l}_{sa}+s-\mathbf{l}_i} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_i-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n_s - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_i - j_i - 1)!}{(\mathbf{l}_i - j_i - \mathbf{l}_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1)}^{s-k-1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{D}{\mathbf{l}_i}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - 1)!}{(j_s + \mathbf{l}_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_i)!}{(j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_s + s - \mathbf{n} - j_s + 1} \sum_{(j_s = j_i - 1)}^{(\quad)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{j_{sa}^{ik} + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^{\mathbf{n}} \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_s = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(\quad)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$D + j_i - \mathbf{n} - \mathbf{l}_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}} \frac{(n_i-j_s+1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+1, \dots, D-s+1)}^{(l_{ik}-l_i+1, \dots, l_i+2)} \sum_{j_i=j_s+1}^{n-j_s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{i=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(2 \cdot n_{is} + j_s - l_i - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} \leq n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + 1 \leq j_i - s$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$\mathbf{n} - l_i \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_{sa}^{ik}-j_i-j_s+1}^n \sum_{j_s=\mathbf{n}+j_{sa}^{ik}-j_i-j_s+1}^{(j_s=j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i-j_s+1}^{(\quad)} \sum_{n_{ik}+j_s+1-j_i-j_{sa}^{ik}}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot (n + j_{sa}^s - j_s - s)! \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 > l_s \wedge j_{sa}^{ik} - l_{ik} \wedge$$

$$\mathbf{n} \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: (j_{sa}^s, \mathbb{k}, j_{sa}^i) \in \mathbb{N} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}-\mathbf{n}+1} \sum_{j_i=\mathbf{n}-D-j_{sa}^{ik}+1}^{(l_s+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + (n + j_{sa}^s - s))!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - \mathbf{n} - l_i)!}{(D + j_s - \mathbf{n} - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s+j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(j_s-1)} \\
& \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{(n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \\
& \frac{(2 \cdot n_{ik} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - s - 2 \cdot \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge
\end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D-s)}^{(l_s+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i+n-D-1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s-j_i-\mathbb{K})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - n_s - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i + s - \mathbf{n} - l_i} \sum_{(j_s = l_i + \mathbf{n} - s + 1)}^{(l_s - k - 1)} \sum_{j_i = j_s + s - 1}^{(n_i - j_s + 1)}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_i > l_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-j+1)!}{(n_i-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(j_i-j-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-\mathbb{k}+1)}^{(j_s=j_i-\mathbb{k})} \sum_{j_i=l_i+\mathbf{n}-j_{sa}+1}^{(j_i=l_i+\mathbf{n}-j_{sa})}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})! \cdot (\mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D - \mathbf{n} < n \wedge l_s > \mathbf{n} + 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i < j_i - s + 1$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$-j_{sa}^{ik} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{n_i=n}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(j_s)} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s+1)} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s+1)}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - \mathbb{k} - j_{sa}^s) \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_i < \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l_i+1} \sum_{(j_s-j_{sa}+1)}^{(l_{ik}-k-j_{sa}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s) \cdot (n + j_{sa}^s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - j_s - n - l_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = 1 \geq 0 \wedge$$

$$j_s = j_{sa}^i - 1$$

$$s: \{1, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}
\end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-l_k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-k-j_{sa}+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} \geq 1 \wedge$$

$$j_s^s \leq j_{sa}^s - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = z \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{l_s=\mathbf{n}-D}^{l_s-k+1} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\cdot)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\cdot)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2)}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1) \cdot (n + j_{sa} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_i - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \bigg) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDSD} S_{j_s, j_i} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + 1)!}{(j_s + j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{\mathbf{n}}$$

$$\sum_{n_i=n}^{\mathbf{n}} \sum_{j_s=n+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{\mathbf{n}} \sum_{j_s=n_{ik}+j_s}^{(j_s+1)} \sum_{j_i=j_s+s-1}^{\mathbf{n}}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - \mathbb{k} - j_{sa}^s) \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_s < \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa}^{ik} + j_{sa}^{ik} - l_{ik} \wedge$$

$$l_s \leq D - \mathbf{n} + 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} > 0 \wedge$$

$$j_{sa}^s = j_{sa}^l + 1 \wedge$$

$$\mathbf{s} \in \{j_{sa}^s, \mathbb{k}, j_s\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}^{\mathbf{l}_i - \mathbf{l} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (n_s - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_i + \mathbf{l}_s - s + 1)!}{(\mathbf{l}_i - j_i - \mathbf{l}_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (n_s - s)!} -$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_i=s+1)}^{(\quad)} \sum_{j_i=s+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot \mathbf{n}_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(\quad) \\ n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (\mathbf{n} - s)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$DOSD_{j_s, j_i} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i l + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(j_i=\mathbb{K}+1)}^{(n_i-j_i+\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_i - j_i - \mathbf{n} - 1)!}{(n_s - j_s - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_i - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i l - 1} \sum_{(j_s=2)}^{(l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{K})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{\binom{()}{l}} \sum_{(j_s=1)} \sum_{j_i=s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\binom{()}{l}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_s^s} \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \bullet s = s + \mathbb{k} /$$

$$\mathbb{k}_z, z = 1 \Rightarrow$$

$$f_Z^{S_{j_s, j_i}^{DOSD}} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)} l_{ik} + s - k - j_{sa}^{ik} + 1 \sum_{j_i=l_i+n-D} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+l_i-k-j_{sa}^{ik})} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}}^{l_i-k-j_{sa}^{ik}}$$

$$\sum_{i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_i+n+\mathbb{k}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \sum_{j_i=n+\mathbb{k}-j_i+1}^{n_{is}-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(j_s - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i-n-D}^{l_{ik}+n-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{()}$$

$$\sum_{n_{ik}=n_{is}-j_s-j_{sa}^{ik}}^{()} \sum_{(n_{is}-\mathbb{k}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n + 1 \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D - n + 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n + 1 \wedge \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{j_s=1}^{l_i - l^{l+1}} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_i-\mathbb{k})}^{(n_i-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(n_i + j_i - n_s - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(l_i - l_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{(n_i+s-n-l_i)} \sum_{(j_s=l_i+n-D-s+1)}^{(k-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{n_i=n+\mathbb{k}}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - j_i - 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{n-l_i} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1} l_{ik}^{(j_s-1)} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(j_s=j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} l_{ik}^{(j_s-1)} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - \dots)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \dots \wedge$$

$$\mathbb{k}: z = 1 =$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{ik}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_{ik}^{ik}+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_{ik}^{ik}+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-l_k} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-i-l-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(j_s-j_i+1)}$$

$$\sum_{n_i=n+l_s-j_{sa}^{ik}+1}^n \sum_{n_i=n+l_s-j_{sa}^{ik}+1}^{(j_s-j_i+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^s}^{(n+l_s-j_{sa}^{ik}+1)} \sum_{(n+l_s-j_{sa}^{ik}+1)}^{(n+l_s-j_{sa}^{ik}+1)} \sum_{(n+l_s-j_{sa}^{ik}+1)}^{(n+l_s-j_{sa}^{ik}+1)}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - n - 2 \cdot k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s)!} \cdot \frac{(n + j_{sa}^s - j_s - s)!}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j=2)}^{(i-k+1)} \sum_{j_i=l_i - k + 1}^{(i-k+1)} \\
& \sum_{n_i=\mathbf{n}+k}^n \sum_{(n_{is}=\mathbf{n}+k-1)}^{(n-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(j_i-k)} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{(i)} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=\mathbf{n}+k}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -$$

$$\sum_{k=1}^{i_l-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k} \sum_{n_i=n+1}^n \sum_{n_s=n+1}^{(n+j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}-j_s-j_i-j_{sa}^s-2 \cdot \mathbb{k}}^{(n+j_s+1)} \frac{(2 \cdot n_{is} + j_s - n_s - j_i - n - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{i_l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()} \sum_{n_i=n+\mathbb{k}}^{()} \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$(\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 2 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: \mathbf{n} \geq 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - n - s + 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=1)}^{l_s-k+1} \sum_{j_i=s}^{i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{l_s-k+1} \sum_{j_i=j_s+s-1}^{i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i - s)!}$$

$$\sum_{i=1}^n \sum_{(j_s=1)}^n \sum_{j_i=s}^n$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_{sa}^{ik}+1)}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (\mathbf{n} - s)!}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + j_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K} (n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - n_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i - i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K} (n_s=\mathbf{n}-j_i+1)}^n \sum_{=n-j_i+1}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2)}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1) \cdot (n + j_{sa}^s - s)!} \cdot \\
& \frac{(l_s + k - 1)!}{(j_i - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DO} = & \sum_{i=1}^i \sum_{(j_s-2)}^{(\mathbf{l}_i + \mathbf{n} - D - s)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - k + 1} \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{n_i - j_s + 1} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s = \mathbf{l}_i + \mathbf{n} - D - s + 1)}^{(\mathbf{l}_s - k + 1)} \sum_{j_i = j_s + s - 1}^{\mathbf{l}_i - k + 1} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - s + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)! \cdot (j_i - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l + 1} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i - l + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^n \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(2\cdot n_{is}+j_s-n_s-j_i-s-2\cdot \mathbb{k})!}{(2\cdot n_{is}+2\cdot j_s-n_s-j_i-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^s)!\cdot (\boldsymbol{n}+j_{sa}^s-j_s-s)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-n_{is}-1)!\cdot (n_{is}-2)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n_{is}-l_i)!\cdot (n-j_i)!}\cdot$$

$$D\geq \boldsymbol{n} < n \wedge l_s\leq D-\boldsymbol{n}+1\wedge$$

$$1\leq j_s\leq j_i-s+1\wedge$$

$$j_s+s-1\leq j_i\leq \boldsymbol{n}\wedge$$

$$l_{ik}-j_{sa}^{ik}+1=l_s\wedge l_{sa}+j_{sa}^{ik}-j_{sa}=l_{ik}\wedge \boldsymbol{n}+j_{sa}-s>l_{sa}\wedge$$

$$D+s-\boldsymbol{n}<l_i\leq D+l_s+\boldsymbol{n}-\boldsymbol{n}-1\wedge$$

$$D\geq \boldsymbol{n} < n \wedge l=\mathbb{k}\geq 0\wedge$$

$$j_{sa}^s=j_{sa}^i-1\wedge$$

$$\boldsymbol{s}\in \{j_{sa}^s,\mathbb{k},j_{sa}^{ik}\}\wedge$$

$$s=2\wedge \boldsymbol{s}=s+1\wedge$$

$$\mathbb{k}_Z\colon Z\rightarrow \mathbb{N}\Rightarrow$$

$$f_Z^{S_{j_s,j_i}DOSD}=\sum_{k=1}^{i^{l-1}}\sum_{(j_s=2)}^{(j_i-s+1)}\sum_{j_i=l_i+\boldsymbol{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^n \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot (n_i-n_{is}-j_s+1)!}\cdot$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{s=2}^{(l_{sa}-k-j_{sa}+2)} \sum_{i=1}^{l-k+1} \sum_{n_i=n+l_k}^{n-j_s+1} \sum_{n_s=n+l_k-j_s+1}^{n_{is}+j_s-j_i-l_k} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-l_k+1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-l_s+1)}^{(j_s=l_s+s-j_{sa}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(j_i=l_i+\mathbf{n}-j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=n_i)}^{(n_i-j_s+1)} \sum_{(n_i=n_i)}^{(n_i-j_s+1)}$$

$$\sum_{(n_i=n_i)}^{(n_i=n_i)} \sum_{(n_i=n_i)}^{(n_i=n_i)} \sum_{(n_i=n_i)}^{(n_i=n_i)}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - 1 \leq l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=1}^{l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i} \sum_{j_i=l_i+n-l_s}^{l_i+l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(j_i=l_k+1)}^{(j_i=l_k+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - \mathbf{n} - 1)!}{(n_s - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+l_k}^n \sum_{(n_{is}=\mathbf{n}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot l_k - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{l_{ik}-k-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{n_i=n+k}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - s + 1)!}{(l_s - j_s - \mathbf{k} + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{i=1}^{\binom{D}{l}} \sum_{(j_s=1)}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{\binom{D}{l}} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - \mathbf{n} - 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s = \mathbf{n} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}, j_{sa}^{ik}\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k}_Z: Z \rightarrow \mathbb{N} \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_{sa}-D-j_{sa})}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(n_{is}=n_{is}+j_s-1)}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{(n_i=n+l_{ik}-j_s+1)}^{(n_{is}+j_s-j_i-l_k)} \sum_{(n_s=n+l_k-j_s+1)}^{(n_s=n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{(l_{sa}+s-i l-j_{sa}+1)} \sum_{(j_i=l_{sa}+n+s-D-j_{sa})}^{(l_{sa}+s-i l-j_{sa}+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \frac{(l_{ik}-k-1)!}{(j_s=l_{sa}+n-l_i-j_s+1) \cdot (j_i=j_s+1)} \cdot$$

$$\sum_{n_i=n+l_k}^n \frac{(n_i-j_s+1)!}{(n_{is}-j_s+1)!} \cdot$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \frac{\binom{()}{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}}{1} \cdot$$

$$\frac{(2 \cdot n_{is} + j_s - l_i - j_i - 2 \cdot k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} c_z S_{j_s, j_i}^{D, \mathbf{n}} &= \sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_{is} - k + 1)!}{(l_s - l_{is} - k + 1)! \cdot (l_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i^l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2)}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s) \cdot (\mathbf{n} + j_{sa} - s)!} \cdot \\
& \frac{(l_s + k - 1)!}{(j_i - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D)}{(D + j_s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \frac{(l_{sa}+s-k-j_{sa}+1)!}{(l_{sa}+s-k-j_{sa}+1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{(j_s + l_s - i l_{sa} + 1)} \sum_{j_s = l_{sa} + \mathbf{n} + s - D}^{(j_s + l_s - i l_{sa} + 1)}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_i - j_i - \mathbb{k} + 1)}^{(n_i - j_i - \mathbb{k} + 1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(j_s+j_{sa}^s-j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z^{S_{j_s, j_i}} = \sum_{k=1}^{n+1} \sum_{(j_s - l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(j_i - s - 1)} \sum_{j_i = l_i + n - D}^{l_{ik} + s - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{\mathbf{l}_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - \mathbf{n} - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(j_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i+n-j_s+1)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{l_i + s - \mathbf{n} - l_i} \sum_{(j_s = l_i + k - s + 1)}^{(l_{ik} - k - j_{sa})} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(\quad)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{K})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_i + s - j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+j_s-D-j_{sa}^{ik}}^{l_s+s-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}} \\ \frac{(n_i-j_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}-j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(n_s-1)!}{(l_s-k-1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \\ \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n_i-j_s+1)}$$

$$\sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)} \sum_{(j_s=j_i-s)}^{(\quad)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-k)}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + 1 \leq j_i - s$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$s > \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_s - s + 1)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(l_i-k+1)}$$

$$\sum_{n_i=n+1}^n \Delta_{n_i}^{j_s+1}$$

$$\sum_{n_{ik}=n_{is}+j_s-j_{sa}-j_i-j_{sa}-\mathbb{k}} \sum_{\substack{(\mathbb{k}) \\ \mathbb{k} \geq 0}} \frac{(2 \cdot n_{is} + j_s - j_i - \mathbb{k} - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - \mathbb{k} - j_{sa}^s)(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l. > D - n + 1$$

$$2 \leq j_s \leq j_i - s + 1$$

$$j_s + s - 1 \leq j_t \leq n \wedge$$

$$l_{ik}^{ik} + 1 = l_s \wedge (j_{sa}^{ik} - l_{ik}) \vee$$

$$(D \geq n \wedge l_s > D - l + 1 \wedge$$

$$2 \leq j \leq j_i - s$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$-j_{sa}^{ik} \wedge l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{\substack{(j_s-s+1) \\ (j_s+l_s+n-D)}}^{(l_s-s+1)} \sum_{\substack{(j_i-s+1) \\ (j_i+l_i+n-D)}}^{(l_i-s+1)} \sum_{\substack{(n_i-j_s+1) \\ (n_i+n+\mathbb{k}-j_s+1)}}^{(n_i-j_s+1)} \sum_{\substack{(n_{is}+j_s-j_i-\mathbb{k}) \\ (n_{is}+j_s-n_s-j_i-\mathbb{k})}}^{(n_{is}+j_s-j_i-\mathbb{k})} \sum_{j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{\substack{(l_s-k+1) \\ (j_s=l_s+n-D)}}^{(l_s-k+1)} \sum_{\substack{(l_i-k+1) \\ (j_i=l_s+s-k+1)}}^{(l_i-k+1)} \sum_{\substack{n \\ n_i=n+\mathbb{k}}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}-j_s+1)}}^{(n_i-j_s+1)} \sum_{\substack{(n_{is}+j_s-j_i-\mathbb{k}) \\ n_s=n-j_i+1}}^{(n_{is}+j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=0}^{l_s+s-\mathbf{n}-j_i} \sum_{n_i=\mathbf{n}+j_s+1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_{is}=n_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{K})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)! \cdot (i_s - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=\mathbf{l}_i+\mathbf{n}-D-s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^n \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i)}^{(j_s=j_i)} \sum_{j_{sa}=n-D}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n+1}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_i > D - \mathbf{n} + 1 \wedge$$

$$D < \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge l_i = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-l_s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s+j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_{sa}=s-1}^{j_{sa}+s-1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n_{is}+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}-j_{sa}^{ik}}^{j_{sa}-j_{sa}^{ik}} \sum_{(n_{is}+j_{sa}+j_{sa}^{ik}-j_i-j_{sa}^{ik}-\mathbb{k})}^{(n_{is}+j_{sa}+j_{sa}^{ik}-j_i-j_{sa}^{ik}-\mathbb{k})}$$

$$\frac{(2 \cdot n_{ik} + j_s - n_s - j_i - \mathbb{k} - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbb{k} - 2 \cdot \mathbb{k} - j_{sa})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_i > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_s \leq j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D > \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (n_{is} - j_s - s)!} \cdot \\
& \frac{(l_s - \mathbb{k})!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(n - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa} + \mathbb{k} = l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I - \mathbb{k} + 1 > 0 \wedge$$

$$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{S}: \{j_{sa}^s, \dots, l_{sa}^{i_s}\} \vee \mathbf{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > i_s \wedge i_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1} \\
& \sum_{n=1}^n \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - \mathbf{n} - 1)! \cdot (s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\cdot)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}-\mathbb{k})}^{(\cdot)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n + n_{is} - j_s - s)!} \\
& \frac{(l_s - n_{is} - \mathbb{k} + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee
\end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \bigg) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-j+1)!}{(n_i-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=l_{sa}+n_{is}-j_{sa}+1}^{(l_s-l_i)-j_s} \sum_{j_i=j_s+1}^{(n-l_i)-j_s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+j_{sa}+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$1 \leq D + j_i - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i l + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_i+1)}^{(n_i=j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - j_s - \mathbf{n} - 1)!}{(n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i l - 1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{\lfloor l \rfloor} \sum_{(j_s=1)}^{(\cdot)} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_s^s} \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!} + \\
& \sum_{k=1}^{l_i - l_{i+1}} \sum_{(j_s=1)}^{l_i - l_{i+1}} \sum_{l_i=s}^{l_i - l_{i+1}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - l_s - l_i - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot \\
& \frac{(n_s + j_i - \mathbf{n} - 1)!}{(\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - s + 1)!}{(l_s + 1)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} - \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{K})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{()} \sum_{j_s=1}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{()}^{()} \sum_{n_i=n+\mathbb{k}}^n (n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1) n_s=n_{ik}+j_s+j_{sa}^i-j_i-j_{sa}^s-\mathbb{k}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} + 2)! \cdot (n - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge$$

$$S = \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^{ik}\} \vee S = \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_Z: Z = \dots \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{j_{sa}=2}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_{sa}=j_{sa}^{ik}+2}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n_{is}+j_s+1} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{j_s=1}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-l^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_s=\mathbf{n}-j_i+1}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_i - l_s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-\mathbb{k}+1)}^{(l_i+l_s+s-j_{sa}^{ik}+1)} \sum_{j_i=l_i+\mathbf{n}-j_s+1}^{(n_i+l_s+s-j_{sa}^{ik}+1)}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)}.$$

$$\sum_{(j_s=n_{is}+j_{sa}^s-j_{sa}^{ik}, n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i+l_s+s-j_{sa}^{ik}+1)} \sum_{(j_s=j_i-\mathbb{k}+1)}^{(l_i+l_s+s-j_{sa}^{ik}+1)}.$$

$$\frac{(2 \cdot n_{is} + j_s - j_i - \mathbb{k} - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + j_s - j_i - \mathbb{k} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i - s$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_{i+1}} \sum_{j_i=n-D}^{n-D} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_s+1)} \\
& \frac{(n_i - l_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s + j_i - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_{Z \cup j_i}^{QSD} &= \sum_{k=1}^{i-l-s-s+1} \sum_{j_s=2}^{l_s+s-k} \sum_{j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-k+1}^{n_i+j_s-j_i-\mathbb{k}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_{ik}+s-i^l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_i-j_i-\mathbb{k}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s) \cdot (n + j_{sa}^s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(j_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - j_s - n - l_i)! \cdot (n - j_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge$$

$$D + s - n < l_i \leq l_s + l_s + s - n - 1 \wedge$$

$$D > n < n \wedge \mathbb{k} > 0$$

$$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa} - \mathbb{k} \wedge$$

$$\mathbb{k}_{j_{sa}} = j_{sa} - s$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^n \sum_{j_s=1}^{n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - j_s + 1)!}{(n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_{is} + j_s - j_i - \mathbb{k})!}{(n - j_i + 1)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^n \sum_{j_s=1}^{n-D-j_{sa}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_i-j_{sa}^{ik}+1}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \\
& \frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{j_s=\mathbf{n}-D-j_{sa}^{lk}+2}^{D+l_s+s-\mathbf{n}} \sum_{(j_s=\mathbf{n}-D-j_{sa}^{lk}+2)}^{(l_s-k+1)} \sum_{j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \\
& \frac{(n_{is}+j_{sa}^s-j_{sa}^{ik}-n_s-j_i-s-2 \cdot \mathbb{k})!}{(2 \cdot n_{is}+2 \cdot j_s-n_s-\mathbf{n}-2 \cdot \mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^s-j_s-s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D - j_{sa}^{lk}) < \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s - s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l_i - s + 1 > 0 \wedge$$

$$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^s \leq j_i^{ik} - 1 \wedge$$

$$S: \{j_{sa}^s, \dots, j_{sa}^i\} \vee S: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > i - \mathbb{k} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)} l_{s+s-k} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_s-1} \sum_{j_s=2}^{\mathbf{l}_s-k+1} \sum_{j_i=\mathbf{l}_s+s-k+1}^{\mathbf{l}_s-k+1}$$

$$\sum_{i=1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=\mathbf{l}_i}^{\binom{\cdot}{\cdot}} \sum_{j_s=1}^{\mathbf{l}_i-\mathbf{l}_i+1} \sum_{j_i=s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
& \frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{i=1}^{l-1} \sum_{(j_s=j_i-s)}^{(n_i-j_i-s)} \sum_{i=s+1}^{l_s+s-k} \\
& \sum_{n_i=n+\mathbb{k}} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=i}^l \sum_{(j_s=1)}^{(n_i-j_s+1)} \sum_{j_i=s}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i+j_{sa}^s-j_s-j_{sa}^{ik}+1)}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \\
& \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i - l^{l+1}} \sum_{j_i=s}^{l_i - l^{l+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + j_{sa}^{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - k + 1)! \cdot (j_s - 2)!} \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s} \\
& \sum_{n+\mathbb{k}}^n \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \\
& \frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 1)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f^z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}(j_i-s+1)} \sum_{(j_s=2)} l_s+s-k$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{j_s=2}^{(\mathbf{l}_s-1)} \sum_{j_i=\mathbf{l}_s+s-\mathbf{l}_i}^{\mathbf{l}_i-i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_i+\mathbb{k}-j_s+1)}^{(n_i+j_s-j_i-\mathbb{k})} \sum_{j_i+1}^{(n_i-n_s-\mathbb{k}+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{j_s=1}^{(\mathbf{l}_s-1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+l_s-j_s+1}^{(n_{is}=n+l_s-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})} \sum_{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})}^{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})}$$

$$\frac{(2 \cdot n_{ik} + j_s - n_s - j_i - 2 \cdot l_s)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - 2 \cdot l_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i + \mathbf{n} - D - s)} \sum_{j_i=l_i + \mathbf{n} - D}^{l_i - k + 1} \\ &\sum_{n_i=\mathbf{n} + \mathbb{K}}^n \sum_{(n_{is}=\mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s=\mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_i - 1)! \cdot (n_s + j_s - n_s - i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(D - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^i \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\begin{aligned}
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}-\mathbb{k})} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}-\mathbb{k})}^{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}-\mathbb{k})} \\
 & \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n + n_{is} - j_s - s)!} \\
 & \frac{(l_s - n_{ik} - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$\begin{aligned}
 & D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\
 & 1 \leq j_s \leq j_i - s + 1 \wedge \\
 & j_s + s - 1 \leq j_i \leq n \wedge \\
 & l_{ik} - j_{sa} + \mathbb{k} = l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
 & D + s - n < l_i \wedge D + l_s + s - n \geq 2 \wedge \\
 & D \geq n < n \wedge I = \mathbb{k} > 1 \wedge \\
 & j_{sa}^{ik} = j_{sa}^i - \mathbb{k} \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
 & \mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\
 & s > 2 \wedge \mathbf{s} = \mathbb{k} + \mathbb{k} \wedge
 \end{aligned}$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{(l_{sa}-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\sum_{i=1}^n l_i} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-l_i+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s} \sum_{j_i=j_i-s+1}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (l_i + \mathbf{n} - D - s)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_i - D}^{n - j_s - 1} \frac{(n_i - j_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - n_{is} - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s = l_i + \mathbf{n} - D - s + 1)}^{l_i - k + 1} \sum_{j_i = j_s + s - 1}^n \frac{(n_i - j_s + 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} + j_s - j_i - \mathbb{k})!}{(j_i - n_{is} - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - s)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{j_s=1}^{l_i-k} \sum_{l_i+n-D}^{l_i-k-j_s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i - \mathbf{l}_i)!} \cdot$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned} \sum_{j_s, j_i}^{OSD} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s)}^{(n_i-j_s+1)} \sum_{(n_i-j_s-j_i-\mathbb{K})}^{(n_i-j_s-j_i-\mathbb{K})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 1)! \cdot (n_i - n_s - j_s - j_i - \mathbb{K})!}$$

$$\frac{(n_i - j_i - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(n_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i^l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i=\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - n - 2 \cdot \mathbb{k} + 1)! \cdot (n + j_s - j_i - s)!} \\
& \frac{(l_s - \mathbb{k})!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + s - n < l_i \leq D + l_s + s - n \wedge \\
& D \geq n < n \wedge l = \mathbb{k} > 1 \wedge \\
& j_{sa}^{lk} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
& s: \{j_{sa}^i, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\
& s > 2 \wedge s = \mathbb{k} + 1 \wedge
\end{aligned}$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-D-j_{sa}+1}^{l_i-1} \sum_{j_i=j_s+s-1}^{(l_{ik}-j_{sa}+2) \cdot l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D-l_i}{j_s-1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-j_i-l_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n-j)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{\binom{D-l_i}{j_s-1}}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{\binom{D-l_i}{j_s-1}}$$

$$\frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot k)!}{(2 \cdot n_{is} + j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^i, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s}^{l_{sa}+s-i-l-j_{sa}+1} \frac{(j_s - k + 1)!}{(j_s - k + 1)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-1)}^{(n-j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k} \frac{(n_i - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1} \frac{(n_i - j_i - k + 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{D+l_s+s-n-l_i} \sum_{j_s=l_{sa}}^{l_s-k-1} \sum_{j_i=j_s+s-1}^{l_s-k-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{(l_s-k-1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \\
& \frac{(2 \cdot n_{is} + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - \dots)!} \\
& \frac{(D - l_i)}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

GÜLDÜNYA

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(n - l_i)!}{(n_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - n - 1} \sum_{(j_s = j_i - 1)}^{(j_s = j_i - 1)} \sum_{j_i = l_i + n - D}^{j_{sa}^{ik} + 1} \\
& \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{is} = n + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{K})!} \cdot \\
& \frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-j_s-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+l_s-k+1, j_i=j_s+l_s-k+2)}^{(l_{ik}-l_s-k+2)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k, n_{is}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}=n+l_k} \sum_{(n_{is}=n+l_k, n_{is}-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(3 \cdot n_{is} + 2 \cdot n_{sa} - j_i - j_{sa}^{ik} - s - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot n_{sa} - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot k)!}.$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq n < n \wedge l_s = D - n + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge I = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{\mathbf{l}_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(\mathbf{l}_i + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_s+s-k-j_{sa}^{ik}+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=n+l_{ik}+n+s-D-j_{sa}^{ik}}^n \sum_{(j_s=j_i-s+1)}^{(j_s=j_i-s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{(\quad)} \sum_{(j_s=j_i-s+1)}^{(\quad)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^{ik} - n_{ik} - n_{is} - j_i - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D > n < n_{is} > D - l_i + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > n > 0 \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s: \{j_{sa}^i, j_{sa}^s\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}-n+1} \sum_{j_i=\mathbf{n}-D-j_{sa}^{ik}+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_s + s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik})) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge \\
& D \geq n < n \wedge I = \mathbb{k} = 0 \wedge
\end{aligned}$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-k}^{l_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{(n_{is}=n+k-1)}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-k)} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik}-k)}^{(n_{ik}=n_{is}-j_{sa}^{ik}-k)}$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - n_{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot k - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D - n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D - n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & f_z S_{j_s, j_i}^{DOSD} \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - j_i - 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i + s - n - l_i} \sum_{j_s=l_i + n - s + 1}^{l_s - k} \sum_{j_i=j_s + s - 1}^{n - l_i + s - n - l_i}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot l_k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}}^{l_{sa}+s-k-j_{sa}+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-n_{is}-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-k+1)}^{(n-l_s+s-j_{sa}+1)} \sum_{j_i=l_i+n-k}^{(n-l_s+s-j_{sa}+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - j_{sa}^{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot l_k)!}{(3 \cdot n_{is} + j_{sa}^s - j_{sa}^{ik} - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!}.$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$((D \geq n < n - l_i + 1 \wedge$$

$$D \geq n < n - l_s \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = l_k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{n_i=n}^{(n-j_s+1)} \sum_{n_i=n}^{(n-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(n_{is}+1)} \sum_{n_{ik}=n_{is}+1}^{(n_{is}+1)} \sum_{n_{ik}=n_{is}+1}^{(n_{is}+1)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa} - n_{ik} - n_{is} - j_i - j_{sa} - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{sa} - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n_{is} > D - s + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n_{is} \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l \wedge$$

$$s \in \{j_{sa}, j_{sa}\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l_{ik}+1} \sum_{(j_s-j_{sa}+1)}^{(l_{ik}-j_{sa}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_s - j_s - s)!} \cdot \\
& \frac{(l_s - k)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = 0 = 0 \wedge$$

$$j_{sa}^s \leq j_s - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\},$$

$$s > j_s - 1 = s \Rightarrow$$

$$\begin{aligned}
f_z^{SDOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_s - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{(n - n_s - j_s - s)!}{(n - n_s - s)!} \cdot$$

$$\frac{(l_s - j_s - n - 1)! \cdot (j_s - 2)!}{(l_s - j_s - n - 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - n_{ik} - \mathbf{n} - l_i) \cdot (n - j_i)!}{(D - n_{ik} - \mathbf{n} - l_i) \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(\mathbf{l}_i + \mathbf{l}_s - s + 1)!}{(j_i + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_{sa}+s-k-j_{sa}+1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \frac{(n-j_s+1)!}{(n-j_s+1)!}$$

$$\sum_{n_{ik}=n_{is}+1}^{()} \sum_{n_{ik}+j_s=n_{ik}+j_s-j_i-j_{sa}^{ik}}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^{ik} - n_{ik} - n_{is} - j_i - j_{sa}^{ik} - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{sa}^{ik} - n - j_{sa}^{ik} - 2 \cdot k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D-j_{sa})}^{(\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa})} \sum_{(j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa})}^{(\mathbf{l}_{sa}+s-k-j_{sa}+1)} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(\mathbf{l}_s-k-1)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{l_{sa}+n_{is}+j_s+l_{ik}=j_s+s-1}^{(l_s-k-1)!} \sum_{n_{is}=n+l_{ik}-j_s+1}^{(n_{is}-n_{is}+1)!}$$

$$\sum_{n_{ik}=n+l_{ik}-j_s+1}^{(n_{ik}-n_{ik}+1)!} \sum_{n_{is}=n+l_{ik}-j_s+1}^{(n_{is}-n_{is}+1)!}$$

$$\sum_{n_{ik}=n+l_{ik}-j_s+1}^{(n_{ik}-n_{ik}+1)!} \sum_{n_{is}=n+l_{ik}-j_s+1}^{(n_{is}-n_{is}+1)!}$$

$$\frac{(n_{is} + j_s + l_i - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot n_{ik} - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik}} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 1}^{n_i + j_s - j_i} \\ & \sum_{n_i = \mathbf{n}}^n \sum_{(n_{is} = \mathbf{n} - j_s + 1)}^{(n_i - j_i + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_i - n_s - 1)!}{(j_i - s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{ik} - k + 1} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 2}^{l_i - k + 1} \\ & \sum_{n_i = \mathbf{n}}^n \sum_{(n_{is} = \mathbf{n} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=1)}^{()} \sum_{j_i=1}^{l_i+1}$$

$$\sum_{n_i=n}^{(n_i-j_i+1)} \sum_{(n_s=n-l_i-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - l_i - j_i - s)!}.$$

$$\sum_{k=1}^l \sum_{i=0}^{l-k} \sum_{j_i=s}^{(l-k-i)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_i-j_{sa}^{ik})}^{(l-k-i)} \sum_{n_s=n_{ik}+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(l-k-i-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(3 \cdot n_i - \mathbf{n} - n_s - j_s - j_i - l_i - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - \mathbf{n} - n_s - j_s - j_i - l_i - 2 \cdot \mathbb{k} + 2)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa}^s + j_{sa}^{ik} - s > 0 \wedge$$

$$D > \mathbf{n} < n \wedge \mathbb{k} = \mathbb{k} = 0$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = j_s$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} + \\
& \sum_{k=1}^{l_i} \sum_{j_i=1}^{l_i-k} \sum_{j_i=s}^{l_i-k} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}
\end{aligned}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^{i^{\mathbf{l}-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}+j_i-j_s-j_{sa}^s=n_{ik}+j_s+j_{sa}^s-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{sa}^s - j_i - j_{sa}^s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - j_{sa}^s - 2 \cdot \mathbb{k} + 2)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(\mathbf{n} + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq \mathbf{n} \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s - \mathbf{l}_i + j_{sa}^{\mathbf{l}_i} - s - j_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n, \mathbb{k} = \mathbb{k} = \mathbf{n} \wedge$$

$$j_{sa}^s - j_{sa}^i = 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\}$$

$$s \leq \mathbf{n} - \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{\mathbf{l}-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=2}^{l_i-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D-l_i}{j_s-1}} \sum_{j_i=l_i+n-D}^{l_i-l_i+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-l_i} \sum_{j_i=j_i-s+1}^{\binom{D-l_i}{j_s-1}} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{D-l_i}{j_s-1}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{(l_i+n-D-s+1)} \frac{(n_i - n_{is} + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l_i-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l+1} \sum_{j_s=1}^{(n_{is}-n_s-1)} \sum_{j_i=l_i+n-D}^{(n_{is}-n_s-1)}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n_{is}-n_s-1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s - 1)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s - 1$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=1)}^{(\mathbf{l}_s - \mathbf{l}_i + s - i\mathbf{l} - j_{sa}^{ik} + 1)} \sum_{j_i=\mathbf{l}_i + s - k}^{i\mathbf{l} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}}^{(n_i - j_s)} \sum_{(n_{is}=\mathbf{n} - j_s + 1)}^{n_{is} + j_s - j_i} \sum_{i-j_i+1}^{i-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{(j_s=1)}^{(\mathbf{l}_s - \mathbf{l}_i + s - i\mathbf{l} - j_{sa}^{ik} + 1)} \sum_{j_i=\mathbf{l}_i + s - D - j_{sa}^{ik}}^{i\mathbf{l} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n} - j_i + 1)}^{(n_i - j_i + 1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+l_s-s-k}^{l_s+s-k} \sum_{n_i=n+l_s-s-k-j_s+1}^{D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_s-s-k-j_s+1}^n \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-(n_{is}+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-(n_{is}+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-(n_{is}+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - n_{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_s < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{j_s=1}^{(l_i - l_s - s + 1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}+1}^{l_{ik}+s-l_i-l_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{j_i=j_s+1}^{n-j_i+1}$$

$$\frac{(n - n_s - 1)!}{(j_i - 2)! \cdot (n - n_s - j_i + 1)!} \cdot$$

$$\frac{(n - n_s - 1)!}{(n_s - l_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+n-l_i} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(l_s-k+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{(l_i - l_s - s + 1)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot l_k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i=s+1}^{n_i - j_s + 1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot$$

$$\frac{(n_{is} - 1)!}{(j_i - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{n_i - j_s + 1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!} + \\
& \sum_{i=1}^{i^{l-1}} \sum_{(j_s=1)}^{(l_i - l_i^{l+1})} \sum_{l_i=s}^{(l_i - l_i^{l+1})} \\
& \sum_{i=1}^n \sum_{(n_s=n-j_i+1)}^{(n-j_i+1)} \\
& \frac{(n_i - j_i - 1)!}{(j_i - 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s + j_i - \mathbf{n} - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} - \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=0}^{n-l_i} \sum_{j_s=1}^{(n-l_i-k)} \sum_{j_i=0}^{(n-l_i-k-j_s)} \frac{(n-l_i-k-j_s-j_i)!}{(n-l_i-k-j_s-j_i)!} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(n-l_i-k-j_s-j_i)} \sum_{n_s=n_{ik}+j_s-j_{ik}-j_{sa}^{ik}-j_{sa}^{ik}-l_k}^{(n-l_i-k-j_s-j_i)} \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_{sa}^{ik} - 2 \cdot l_k + j_{sa}^{ik})!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_{sa}^{ik} - n - 2 \cdot l_k + 2)! \cdot (n - s)!} \cdot$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_{sa}^{ik} - 2 \cdot l_k + j_{sa}^{ik})!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_{sa}^{ik} - n - 2 \cdot l_k + 2)! \cdot (n - s)!} \cdot$$

$$\frac{(D + s - n - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & \sum_{j_s=1}^{(l_s-k)} \sum_{j_i=j_s+s-1}^{l_i-k+1} S_{j_s, j_i}^{DOSD} \sum_{n_i=j_s}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=l}^{()} \sum_{j_s=1}^{l_i-l} \sum_{j_i=s}^{l+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{l=1}^{l-1} \sum_{(j_s=2)}^{(l_s-1)} \sum_{j_s=s-1}^{j_s=s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa} - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 2)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1)$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - l_i + 1} \sum_{j_i=l_i+n-D}^{l_i - l_i + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_i - j_i - \mathbf{n} - 1)!}{(n_i - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{l_s+s-k} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_{i+1}}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_i} \sum_{j_s=1}^{(n_i - j_i + 1)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - j_s - 1)!}{(l_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot l_k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & f_z S_{j_s, j_i}^{DOS} \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 2} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2}^{l_i - k + 1} \\ & \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{l_s} \sum_{j_s=1}^{(n-l_s)} \sum_{j_i=l_i+n-D}^{l_s+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(n-l_s)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s - 1)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} - j_{sa}^{ik} + j_{sa} - s > j_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - n \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s - 1$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+1, \dots, D-s+1)}^{(l_{sa}-k+1, \dots, l_{sa}-2)} \sum_{j_i=j_s+1}^{l_{sa}-k+1} \frac{(n_i - j_s)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\sum_{n_i=n}^{(n_i-j_s)} \sum_{(n_{is}=n-j_s+1)}^{(n_{is}+j_s-j_i)} \frac{(n_i - j_s)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_{sa}=s-1}^{j_{sa}=s-1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}-j_{sa}-j_{sa}^{ik}}^{(n_{is}-j_{sa}-j_{sa}^{ik})} \sum_{(n_{is}-j_{sa}-j_{sa}^{ik})}^{(n_{is}-j_{sa}-j_{sa}^{ik})}$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - n_{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i \leq \mathbf{n} - 1$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_s - 1)!}{(i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - i - n - 1)!}{(n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{l_{sa}+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s}^{QSD} = \sum_{k=1}^{l_i - j_s + 1} \sum_{(j_s - 2)}^{n - D - j_s + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_{sa} + s - k - j_{sa} + 1} \sum_{n_i = n}^{(n_i - j_s + 1)} \sum_{(n_{is} = n - j_s + 1)}^{n_{is} + j_s - j_i} \sum_{n_s = n - j_i + 1}^{(n_i - n_{is} - 1)!} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s-2)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_s + s - 2 \cdot l_k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!} \cdot$$

$$\frac{1}{(n + j_s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{j_s=2}^{l_s + s - k - j_{sa} + 1} \sum_{j_i=l_{sa} + n + s - k + 1}^{l_s + s - k - j_{sa} + 1} \\ & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_s - n_{is} - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{j_s=2}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i=l_s + s - k + 1}^{l_{sa} + s - k - j_{sa} + 1} \\ & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{n})!}{(D + j_i - \mathbf{n} - l_i)!(n - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^n \sum_{j_s=1}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(n_i + j_i - n_s - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - j_i - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+j_i+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s-k-1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_{ik}+s-k-j_{sa}^{ik})}^{l_{ik}+s-k-j_{sa}^{ik}} \sum_{(n_i=n+\mathbb{k})}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-k-j_{sa}^{ik})}^{l_{ik}+k+1} \sum_{(n_i=n+\mathbb{k})}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_s+s-\mathbf{n}-j_s+1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-s+1)}^{(l_i+n-D-s)} \sum_{j_i=l_{ik}+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_i+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+1, \dots, D-s+1)}^{(l_{ik}-l_i-j_{sa}^{ik}+2)} \sum_{j_i=j_s+1}^{(n-j_s+1)}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=n_{ik}+1, \dots, n_i-j_s+1)}^{(n_i-j_s+1)}.$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}.$$

$$\frac{(3 \cdot n_{is} + 2 \cdot n_{ik} + j_{sa}^s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot n_{ik} - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s = D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^k}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_{sa}^k-j_s+1}^n \sum_{n_{ik}=\mathbf{n}+j_{sa}^k-j_i-j_{sa}^k}^{(j_s-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^k-j_{sa}^k}^{(\quad)} \sum_{n_{ik}+j_s-j_{sa}^k-j_i-j_{sa}^k}^{(\quad)}$$

$$\frac{(3 \cdot \mathbf{n}_{is} + j_s + j_{sa}^k - n_{ik} - n_{is} - j_i - j_{sa}^k - 2 \cdot \mathbb{k})!}{(3 \cdot \mathbf{n}_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{n} > D - \mathbf{n} + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_c - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - \mathbf{n} \wedge$$

$$\mathbf{s}: \{j_{sa}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{(n + j_{sa}^s - j_s - s)!}{(l_s - k - 1)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_s=s+1)} \sum_{j_i=l_i+n-D}^{s-k} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(n_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=0}^{l_s+s-\mathbf{n}-j_i} \sum_{n_i=\mathbf{n}+j_s+1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-\mathbb{k}}^{l_s+s-\mathbf{n}-j_i} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-\mathbb{k}}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + j_s + j_i - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot \mathbf{n} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_s + j_s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s}^{D,D} = \sum_{k=1}^{D-n} \sum_{j_s=l_s+n-D}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - \mathbf{n} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i - \mathbf{n} - j_i - j_s)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (\mathbf{n} - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DQ} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)! \cdot (i_s - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{s=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=j_i-s+1}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{j_s, j_i}^{SD} = \sum_{j_s=l_{sa}}^{D-n+1} \sum_{j_i=D-j_{sa}+1}^{D-s} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{n_i=n+k-j_s+1}^{(n_i-j_s-k)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)! \cdot (i_s - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=\mathbf{l}_i+\mathbf{n}-D-s+1}^{j_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}-k-j_{sa}+2)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_i+j_s-j_i-1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i - 1)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_i-n-l_i} \sum_{j_i=s+1}^{n-l_i-j_s+1} \sum_{l_{sa}=\mathbf{n}+s-D-j_{sa}}^{n_{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{DOSD} S_{j_s, j_i} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_i=l_{sa}+n-D-j_{sa})}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_i + j_s - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \frac{(l_{ik}-k-1)!}{(j_s=l_{sa}+\mathbf{n}-j_{sa}+1) \cdot (j_i=j_s+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \frac{(n_i-j_s+1)!}{(n_i-j_s+1)}$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \frac{(\cdot)}{\sum_{n_{ik}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}}$$

$$\frac{(3 \cdot n_{is} + 1 + j_{sa}^s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n) \wedge \mathbf{n} - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_{Z=1}^{DOSD}(j_i) = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s-1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - \mathbf{n} - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s + 1)! \cdot (i_s - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_i=j_s-s+1)}^{l_s+s-k} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \text{DOSD}_{j_s, j_i} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+\mathbb{K}}^{j_i-\mathbb{K}} \\
& \frac{(n_{is}-1)!}{(j_s-1)! \cdot (n_i-n_s+1)!} \cdot \\
& \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \\
& \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(\quad)}
\end{aligned}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{\mathbf{l}-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l - 1} \sum_{(j_s=2)}^{(l_{ik} - k - j_{sa}^{lk} + 2)} \sum_{i=l_{ik}+s-1}^{l_{ik}+k+1} \sum_{j_{sa}^{lk}+2}^{l_{ik}+k+1} \sum_{n_i=n-\mathbb{K}}^n \sum_{n_i=n-\mathbb{K}}^{(n_{is}+n+\mathbb{K}-j_s-1)} \sum_{n_s=n-j_i+1}^{(n_i-l_k)} \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=i l}^{()} \sum_{(j_s=1)}^{l_i - i l + 1} \sum_{j_i=s}^{l_i - i l + 1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} - \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+1}^n \sum_{n_{ik}=n_{is}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n-j_s+1)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_{ik} - j_i - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=i^l}^{(\quad)} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}^{(\quad)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \\
& \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} + 2)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i-1} \sum_{j_i=j_s+s-1}^{i-1-k-j_{sa}^{lk}+2} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=1}^i \sum_{j_s=1}^{i-1-k-j_{sa}^{lk}+2} \sum_{j_i=s}^{i-1-k-j_{sa}^{lk}+2}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=1}^{l-1} (l_{ik} - j_{ik} + 2) \sum_{j_i=2}^{n} \sum_{j_i=j_s+1}^{n} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_i=n+\mathbb{k}}^n \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_i=n+\mathbb{k}}^n \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + j_{sa}^s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^n \sum_{j_s=1}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_i=n+\mathbb{k}}^{()} \sum_{n_i=n+\mathbb{k}}^{()}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} + 2)! \cdot (n - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbf{c}_{j_{ik}, j_i}^{DOSD} = & \sum_{j_s=1}^{j_i-1} \sum_{(j_s=2)}^{(j_i-s+1)} l_{ik+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - k - 1)!}{(l_s - j_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^i \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(n+j_i-n-j_s-s)!}.$$

$$\frac{(l_s-k)}{(l_s-j_s-k+1)! \cdot (j_s-2)!}.$$

$$\frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = 1 + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=0}^{i^{l-1}} \sum_{j_s=l_i+\mathbf{n}-D-s+1}^{i^{l-1}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k+l_{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_s+s-k}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^{n} \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - \mathbb{k})!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^{s-1}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s - 1 \wedge$$

$$\mathbb{k}_z: 2 \leq 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}. \end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{l_{ik}+s-l_{ik}+1}$$

$$\sum_{n=n+l_k}^{(n_i-j_s+1)} \sum_{(n_i+n+l_k-j_s+1)}^{n_{is}+j_s-j_i-l_k} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_{ik}+1} \sum_{j_i=j_s+s-l_{ik}+1}^{l_{ik}+s-l_{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbf{n} \wedge \mathbf{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa} - \mathbf{k} \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = z \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l-1} \sum_{j_s=1}^{(l_s - k + 1)} \sum_{n_i=n+l_k}^{n-l_k-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l} \sum_{j_s=1}^{(l_s - i l + 1)} \sum_{j_i=s}^{(n_i - j_i - k + 1)} \\
& \sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i - j_i - k + 1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=0}^{i-l} \sum_{j_i=j_i-s+1}^{(n_i-s)+s-k} \frac{(n_i-s-k)!}{(j_i-s+1-k)! \cdot (n_i-s-j_i+1-k)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1-k)! \cdot (n_i-j_s+1-k)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1-k)! \cdot (n_i-j_s+1-k)!} \cdot$$

$$\frac{(3 \cdot n_{is} + n_{ik} + j_{sa}^s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^n \sum_{j_s=1}^{(n_i-s)+s-k} \sum_{j_i=s}^{(n_i-s)+s-k} \frac{(n_i-s-k)!}{(j_i-s+1-k)! \cdot (n_i-s-j_i+1-k)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_i-j_s-j_{sa}^{ik})}^{(n_i-j_s-j_{sa}^{ik})} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s-j_{sa}^{ik})} \frac{(n_i-j_s-j_{sa}^{ik})!}{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})! \cdot (n_i-j_s-j_{sa}^{ik}-n_{ik}-j_s-j_{sa}^{ik})!} \cdot$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 2)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} + 2)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$((D \geq n < n + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$n - l_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = 0 \wedge \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa} - \mathbb{k} \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = z \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l-1} \sum_{j_s=0}^{(l_s - i l + 1)} \sum_{j_i=0}^{l_i - k + 1} \sum_{n_i=n+l_k}^{n-j_s+1} \sum_{n_s=n+l_k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i - i l + 1} \\
& \sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i - j_i - k + 1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_i)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{1 \leq j_i-s+1 \\ j_i=l_i+k}}^{l_s-s-k} \frac{(n_i-j_s-k)!}{(n_i-j_s-k)!}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{1 \leq j_s+1 \\ (n_i-j_s+1)}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1)!}.$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{1 \leq j_s+1 \\ (n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})!}{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})!}.$$

$$\frac{(3 \cdot n_{is} + 2 \cdot j_{sa}^s - 2 \cdot j_{sa}^{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_{sa}^s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_i < \mathbf{n} - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{l}_s-2-s+1)}^{(\mathbf{l}_s-1-k+1)} \sum_{(j_i=j_s+1)}^{(\mathbf{l}_i-1-k+1)} \frac{(n_i - j_s + 1)! \cdot (n_{is} + j_s - j_i - \mathbb{k})!}{(j_i - \mathbf{n} + \mathbb{k} - j_s + 1)! \cdot (n_i - j_i + 1)!}.$$

$$\sum_{(j_i=\mathbf{n}+\mathbb{k})}^{(n_i-\mathbf{l}_i+\mathbf{l}_s-1)} \sum_{(j_s=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \sum_{(j_i=j_s+1)}^{(n_i-j_i+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{(j_s=1)}^{(\mathbf{l}_i-1-k+1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-1-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}=n+\mathbb{k}-j_s+1}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - n_{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D + n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} - s + 1 \wedge$$

$$j_s + \mathbb{k} - 1 \leq j_i \leq n - j_{sa} + 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_i + n - D} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_i + 1} \sum_{j_i = l_i + n - D}^{n - j_i + 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_s = n - j_i + 1)}^{(n_i - j_s + 1)}$$

$$\frac{(n_i - j_s)!}{(j_i - j_s)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D + l_s + s - n - l_i} \sum_{(j_s = j_i - s + 1)}^{()} \sum_{j_i = l_i + n - D}^{l_{sa} + s - k - j_{sa} + 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{K}_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(\mathbf{l}_i + \mathbf{n} - D - s)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - k + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - n_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - k - 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - \mathbb{k} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})!} \cdot \\
& \frac{1}{(\mathbf{n} + \mathbb{k} - j_s - s)!} \cdot \\
& \frac{(l_s - k)}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i - \mathbf{n} \wedge$$

$$\mathbf{s}: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

$$\mathbb{k} \geq 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{sa}+s-\mathbf{l}-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - \mathbf{n} - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (n_s - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_i + \mathbf{l}_s - s + 1)!}{(\mathbf{l}_s - j_i - \mathbf{l}_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1}^{\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i-1} \sum_{j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(n - l_i)!}{(n_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{i=1}^n \sum_{j_s=1}^{l_{sa}} \sum_{j_i=1}^{l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(n + j_{sa}^s - j_s - s - \mathbb{k})!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} = D + l_s + s - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \vee)$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{sa} + \mathbf{n} + s - D - j_s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_s + s - k + 1} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=1)}^{l_s+s-n-l_i} \sum_{i=l_{sa}+n+l_s-D-j_{sa}}^{l_s+s-n-l_i} \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{l_s+s-n-l_i} \sum_{j_i=l_{sa}+n+l_s-D-j_{sa}}^{l_s+s-k} \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{l_s+s-n-l_i} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{l_s+s-k} \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot l_k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i - s$$

$$\mathbf{s} : \{l_{sa}, l_{sa}^{i_a}\} \wedge$$

$$s = 2 \wedge \mathbf{s} = j_{sa} + \mathbb{k} \wedge$$

$$\mathbb{k}_{Z^+} = 1 \Rightarrow$$

$$_{fz} S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{il-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{l}-1}^{l_i-1} \sum_{j_i=\mathbf{l}-D-j_{sa}+1}^{(l_s-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D+l_s+s-n}{l_s}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l_s - s + 1)!}{(l_s - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-n)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{\binom{D+l_s+s-n}{l_s}}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(j_i - s - 1)} \sum_{j_i = l_i + n - D}^{l_{ik} - j_{sa}^{ik} + 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_i + j_s - j_i - k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n - n_s - k - 1)!}{(n - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 2}^{l_i - k + 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - k}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - \mathbf{n} - j_i + 1} \sum_{(j_s = j_i - k + 1)}^{(j_s = j_i - 1)} \sum_{j_i = l_i + \mathbf{n} - D}^{j_{sa}^{ik} + 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-s+1)}^{(l_i+n-D-s)} \sum_{j_i=l_{ik}+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_{is}+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s - s + 1)!}{(j_s + j_i - l_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s - s + 1)!}{(j_s + j_i - l_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^k}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_{sa}^k}^n \sum_{n_{ik}=\mathbf{n}+j_{sa}^k-j_i-j_{sa}^k}^{(j_s-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^k-j_{sa}^k}^{(\quad)} \sum_{n_{ik}+j_{sa}^k-j_i-j_{sa}^k}^{(\quad)}$$

$$\frac{(3 \cdot \mathbf{n}_{is} + j_s + j_{sa}^k - \mathbf{n}_{ik} - \mathbf{n}_{is} - j_i - j_{sa}^k - 2 \cdot \mathbb{k})!}{(3 \cdot \mathbf{n}_{is} + 2 \cdot j_s - \mathbf{n}_{ik} - \mathbf{n}_{is} - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{n} > D - \mathbf{n} + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_c - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{(n + j_{sa}^s - j_s - s)!}{(l_s - k - 1)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-s+1)} \sum_{j_i=l_i-n+D}^{s-k} \frac{(n_i-j_s+1) \sum_{n_i=n+\mathbb{K}}^{n_i=n+\mathbb{K}-j_s+1} \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{K}} \sum_{j_i+1}^{j_i+1} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{K}-1)!}{(j_i-n_{is}-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{K})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=0}^{l_s+s-\mathbf{n}-j_i} \sum_{n_i=\mathbf{n}+j_s+1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K}}^{l_s+s-\mathbf{n}-j_i} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{()}$$

$$\frac{(n_{is} + j_s + l_i - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot \mathbf{n} + 2 \cdot n_{ik} - n_{is} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s}^{D,D} = \sum_{k=1}^{D-n} \sum_{j_s=l_s+n-D}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - \mathbf{n} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (\mathbf{n} - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DO} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_s - l_s - s - 1)!}{(j_s + l_i - l_s - l_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=j_i-s+1}^{(\quad)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_{j_s, j_i}^{S_{D-n+1}^{D-n+1}} = & \sum_{j_s=l_{sa}}^{D-n+1} \sum_{j_i=D-j_{sa}+1}^{D-s} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\ & \sum_{n_i=n+k}^n \sum_{n_i=n+k-j_s+1}^{(n_i-j_s-k)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\ & \sum_{k=1}^{D-n+1} \sum_{j_s=l_i+n-D-s+1}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - \mathbf{n} - l_s - 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=\mathbf{l}_i+\mathbf{n}-D-s+1}^{j_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^n \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_i+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_i-n-l_i} \sum_{j_i=s+1}^{n-l_i-j_s+1} \sum_{l_{sa}=\mathbf{n}+s-D-j_{sa}}^{n_{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{K})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{K})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(j_i+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(j_i+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} +$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \frac{(l_{ik}-k-1)!}{(j_s=l_{sa}+\mathbf{n}-j_{sa}+1) \cdot (j_i=j_s+1)}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \frac{(n_i-j_s+1)!}{(n_i-j_s+1)}.$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_{ik}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

$$\frac{(3 \cdot n_{is} + 1 + j_{sa}^s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n) \wedge \mathbf{n} - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_{Z=1}^{DOSD}(j_i) = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s-k)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)! \cdot (i_s - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \text{DOSD}_{j_s, j_i} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\ &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\quad \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ &\quad \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+\mathbb{k}}^{j_i-\mathbb{k}} \\
& \frac{(n_{is}-1)!}{(j_s-1)! \cdot (n_i-n_s+1)!} \cdot \\
& \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \\
& \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}
\end{aligned}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i \mathbf{l} - 1} \sum_{(j_s=2)}^{(j_i - s + 1)} \sum_{j_i = s + 1}^{\mathbf{l}_{ik} + s - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-j_{sa}^{ik}+2)}^{l_{ik}+1} \frac{(j_i - j_s + 1)!}{(j_i - l_k)!} \cdot \frac{(n_i - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_s - j_i - l_k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{(n_i - j_i - l_k + 1)} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i - j_i - l_k + 1)} \frac{(n_i - n_s - l_k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - l_k + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} - \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+1}^n \sum_{n_{ik}=n_{is}+j_s-j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n-j_s+1)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_{ik} - j_i - j_{sa}^s - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - j_{sa}^s - 2 \cdot k)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()} \\
& \sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{()} \\
& \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot k + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k + 2)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_{z,j_s,j_i}^{SDOSD} = & \sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{lk}+1} \sum_{j_i=j_s+s-1}^{l-k-j_{sa}^{lk}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^l \sum_{j_s=1}^{l-k} \sum_{j_i=s}^{l-k-j_{sa}^{lk}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \end{aligned}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=1}^{l-1} (l_{ik} - j_{ik}^{ik+2}) \sum_{j_i=2}^{n-1} \sum_{j_i=j_s+1}^{n-1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_i=n+\mathbb{k}}^n \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n-1} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{n-1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - j_{sa}^{ik} - j_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + j_{sa}^s - j_{sa}^{ik} - j_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^n \sum_{j_s=1}^{n-1} \sum_{j_i=s}^{n-1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_s-j_{sa}^{ik}}^{n-1} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{n-1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 2)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} j_{sa}^{DOSD} = & \sum_{j_i=1}^{\mathbf{n}-1} \sum_{j_s=2}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - k + 1)!}{(l_s - j_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+\mathbb{k})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} + s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_i - j_s - s)!} \cdot \\
& \frac{(l_s - k)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge \\
& D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge \\
& D \geq n < n \wedge l = \mathbb{k} > 1 \wedge \\
& j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^i, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\
& s > 2 \wedge \mathbf{s} = j_{sa}^i + \mathbb{k} \wedge \\
& \mathbb{k}_2 \leq 2 \Rightarrow
\end{aligned}$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=0}^{i l-1} \sum_{j_s=l_i+\mathbf{n}-D-s+1}^{i l-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D-l_i}{j_s-1}} \sum_{j_i=l_i+n-D}^{l_i-l_i+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - \mathbb{k} + 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-1} \sum_{(j_i=l_i+n-D-s+1)}^{(l_{ik}-k-1) \cdot (l_{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{\binom{D-l_i}{j_s-1}}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{n_i=n+\mathbb{k}}^{n} \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{\binom{D}{l}} \sum_{j_s=1}^{\binom{D}{l_s}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{\binom{D}{l_s}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{s}-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(n + j_{sa}^s - j_s - \mathbb{k})!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{s-1}, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^{s-1}, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s - 1 + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+\mathbf{n}-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{l_{ik}+s-l_{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^l \sum_{j_s=1}^{()} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_{ik}-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_s=\mathbf{n}-j_i+1}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot
\end{aligned}$$

$$i_+ + s - 1 \leq i_- \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \wedge \mathbf{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - \mathbb{K} \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \in \mathbf{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > z \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \wedge$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{l_s=0}^{(l_s-1)} \sum_{l_i=k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^{n-j_s+1} \sum_{n_s=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{l_s=1}^{l_s-1} \sum_{j_i=s}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=0}^{i-l} \sum_{j_i=j_i-s+1}^{(s)} \sum_{j_i=s-k}^{s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(s)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(s)}$$

$$\frac{(3 \cdot n_{is} + n_{ik} + j_{sa}^s - j_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^{i-l} \sum_{j_s=1}^{(s)} \sum_{j_i=s}^{(s)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(s)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} + 2)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_s - j_s - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{(n_i-j_s+1)} \sum_{j_i=s}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \\
& \frac{(n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} + 2)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$((D \geq n < n + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$n_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - \mathbb{K} \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \in \mathbf{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > z \vee s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \vee$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{j_s=0}^{(l_s - i l + 1)} \sum_{j_i=0}^{l_i - k + 1} \sum_{n_i=n+\mathbb{k}}^{n - j_s + 1} \sum_{n_s=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{j_s=1}^{(l_s - i l + 1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i - i l + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{0 \leq j_i-s+1 \\ j_i=l_i+k}}^{n-l_s-k} \frac{(n_i-j_i-k)!}{(n_i-j_i-k)! \cdot (n_i-j_i-k)!}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{0 \leq j_s+1 \\ j_s=n_i-k}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1)! \cdot (n_i-j_s+1)!}.$$

$$\sum_{\substack{0 \leq j_s+1 \\ j_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k}}}^{(n_i-j_s+1)} \sum_{\substack{0 \leq j_s+1 \\ j_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k}}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1)! \cdot (n_i-j_s+1)!}.$$

$$\frac{(3 \cdot n_{is} + j_{sa}^{ik} - j_{it} - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + j_{sa}^{ik} - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - j_s - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \cap s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{l}_s-2-s+1)}^{(\mathbf{l}_s-1-k+1)} \sum_{(j_i=j_s+1)}^{(\mathbf{l}_i-1-k+1)} \frac{(n_i - j_i - \mathbf{l}_s + 1)!}{(j_i - j_s - 1)! \cdot (n_i - j_i - \mathbf{l}_s + 1)!} \cdot$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{l}_i)}^{(n_i-j_s+1)} \sum_{(n_s=\mathbf{n}+\mathbf{l}_s-j_s+1)}^{(n_i+j_s-j_i-\mathbf{l}_i)} \sum_{(j_i=j_s+1)}^{(n_i-j_i-\mathbf{l}_i+1)} \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbf{l}_i - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbf{l}_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{(j_s=1)}^{(\mathbf{l}_i-1-k+1)} \sum_{(j_i=\mathbf{l}_i+\mathbf{n}-D)}^{(\mathbf{l}_i-1-k+1)} \frac{(n_i - j_i - \mathbf{l}_i + 1)!}{(j_i - j_s - 1)! \cdot (n_i - j_i - \mathbf{l}_i + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbf{l}_i}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbf{l}_i+1)} \frac{(n_i - n_s - \mathbf{l}_i - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbf{l}_i + 1)!} \cdot$$

$$\frac{(n_i - n_s - \mathbf{l}_i - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbf{l}_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}=n+\mathbb{k}-j_s+1}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{ik}=n_{is}-j_{sa}^{ik}} \sum_{(n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}$$

$$\frac{(3 \cdot n_{is} + j_{sa}^s - n_{ik} - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot \mathbb{k} - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D + n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} + s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^i = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_i + n - D} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_i + 1} \sum_{j_i = l_i + n - D}^{n - j_i + 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_s = n - j_i + 1)}^{(n_i - j_s + 1)}$$

$$\frac{(n_i - l_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot$$

$$\frac{(n_s + j_i - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D + l_s + s - n - l_i} \sum_{(j_s = j_i - s + 1)}^{()} \sum_{j_i = l_i + n - D}^{l_{sa} + s - k - j_{sa} + 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{K}_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(\mathbf{l}_i + \mathbf{n} - D - s)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - k + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - \mathbb{k} + 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_i - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - j_i - n - 1)!}{(n_s - j_i - n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - k - 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - j_{sa}^{ik} - \mathbb{k})!} \cdot \\
& \frac{1}{(n + j_i - j_s - s)!} \cdot \\
& \frac{(l_s - k)}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq j_s + 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_s + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq l_i < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa}^i + \mathbb{k} \wedge$$

$$l_{ik} \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D+l_s+s-n+l_i}{l_i}} \sum_{(j_s=1)}^{l_{sa}+s-n+l_i-l_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - \mathbb{k} + 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_s - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n+l_i} \sum_{(j_s=1)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(j_s=1)}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, l_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_{sa}+n-D-j_{sa})+(l_{sa}+s-k-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{l_{sa}} \sum_{j_i=1}^{l_{sa} + \mathbf{n} + s - D - j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - \mathbf{n} - j_{sa}^{ik} - 2 \cdot \mathbb{k})!}.$$

$$\frac{1}{(n + j_{sa}^s - j_s - s - \mathbb{k})!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (l_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} = D + l_s + s - \mathbf{n} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \vee)$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{sa} + \mathbf{n} + s - D - j_s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_s + s - k + 1} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-n-l_{sa}+1} \frac{(n_i - l_s - j_i - k)!}{(n_i - n_s - j_i - k + 1)!} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_s+1)} \frac{(n_i - l_s - j_i - k)!}{(n_i - n_s - j_i - k + 1)!} \cdot$$

$$\frac{(n_i - l_s - j_i - k)!}{(n_i - n_s - j_i - k + 1)!} \cdot$$

$$\frac{(n_i - l_s - j_i - k)!}{(n_i - n_s - j_i - k + 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \frac{(n_i - l_s - j_i - k)!}{(n_i - n_s - j_i - k + 1)!} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(3 \cdot n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot l_k)!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot l_k)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - j_{sa}^s \leq j_i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = j_{sa} + \mathbb{K} \wedge$$

$$\mathbb{K}_{Z^+} = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-D-j_{sa}+1}^{l_i-1} \sum_{j_i=j_s+s-1}^{(l_s-1) \cdot l_{sa}+s-k-j_{sa}+1} \cdot \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\binom{D}{l}} \sum_{j_s=1}^{l_{sa}+s-n+l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i-\mathbb{k}+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l_{sa} - s + 1)!}{(l_s - j_i - l_{sa} - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n+l-j_{sa}+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-n-j_i)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{\binom{D}{l}}$$

$$\frac{(n_{is} + j_s + j_{sa}^s - n_{ik} - n_s - j_i - j_{sa}^{ik} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n_s - j_i - n - j_{sa}^{ik} - 2 \cdot \mathbb{k})!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - j_s - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_i+l_{ik}+s-k-j_{sa}^{ik})}^{l_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}}^{l_{ik}+k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{l_s+s-\mathbf{n}-j_s+1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{l_i-k+1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-j_s-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_s+1}^n \sum_{n_{ik}=\mathbf{n}+j_s+1}^{(n-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)} \sum_{n_{ik}+j_s+1-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i + s - 2 \cdot \mathbb{k} + j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i + s - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{n} > D - \mathbf{n} + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}, j_{sa}\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n-n+1} \sum_{j_i=n-D-j_{sa}^{ik}+1}^{(l_s+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+2)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_i-s-j_s)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \vee \\
& (D > \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik})) \wedge \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge
\end{aligned}$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n}^{l_s+s-k} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_{is}=n+\mathbb{k}-1)}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{(n_{ik}=n_{is}-j_{sa}^{ik})} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik})}^{(n_{ik}=n_{is}-j_{sa}^{ik})}$$

$$\frac{(2 \cdot n_{ik} + j_{sa}^{ik} - 2 \cdot j_{sa}^{ik} - n_s - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_{sa}^{ik} - n_s - s - \mathbb{k} - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D > n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D > n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i+l_s-j_s-s)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - n_s - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - n - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i + s - n - l_i} \sum_{(j_s = l_i + \mathbb{k} - s + 1)}^{(l_s - k - 1)} \sum_{j_i = j_s + s - 1}^{(n - j_s + 1)}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s - n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}}^{l_{sa}+s-k-j_{sa}} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-j_s-1)!}{(n_i-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(n_i-n_s-1)!} \cdot \frac{(j_i-j_s-1)!}{(j_i-j_s-1)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_s=j_i-\mathbf{l}_i+1)}^{(\mathbf{l}_s+\mathbf{l}_i+s-j_{sa}+1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-j_{sa}+1}^{(\mathbf{l}_i+\mathbf{n}-j_{sa}+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}^{(\mathbf{l}_i)} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\mathbf{l}_i)}$$

$$\frac{(2 \cdot n_{ik} + j_{sa}^s + 2 \cdot j_{sa}^{ik} - n_s - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_i > D - \mathbf{n} + 1 \wedge$$

$$D \leq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{j_s=n+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(n_{ik}+j_s)} \sum_{j_s=n_{ik}+j_s}^{(n_{ik}+j_s+1)} \sum_{j_i=j_s+1}^{(j_s+1)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^l - n_s - j_i - s - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{n} > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D > \mathbf{n} \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l \wedge$$

$$s \in \{j_{sa}, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_{ik}+1} \sum_{(j_s-j_{sa}+1)}^{(l_{ik}-j_{sa}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s^{is})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 1 - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot$$

$$\frac{1}{(n+j_s-s-j_s)!} \cdot$$

$$\frac{(l_s-k)}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{sa} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = 0 = 0 \wedge$$

$$j_{sa}^s \leq j_s - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\},$$

$$s > n, s = s \Rightarrow$$

$$fz^{DOSD}_{j_s, j_i} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n=(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)} \cdot$$

$$\frac{(n - s - \mathbb{k} - j_s)!}{(n - s - \mathbb{k} - j_s)!} \cdot$$

$$\frac{(n - s - \mathbb{k} - 1)!}{(n - s - \mathbb{k} - 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - n_{ik} - \mathbf{n} - l_i)}{(D - n_{ik} - \mathbf{n} - l_i)} \cdot (n - j_i)!$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i + l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_i=l_{sa}+n+s-D-j_{sa}+1)}^{(l_{sa}+s-k-j_{sa}+1)} \frac{\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(j_s-n_s-1)!}{(j_s-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{l_{sa}+n_{is}+j_s+l_i=j_s+s-1}^{(l_s-k-1)!} \sum_{n_i=n+l_i-j_s+1}^{(n_{is}+1)!} \sum_{n_{is}=n+l_i-j_s+1}^n$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik} \mid n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\cdot)} \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik}} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 1}^{n_i + j_s - j_i} \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{ik} - k + 1} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 2}^{l_i - k + 1} \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{j_i=1}^{(\quad)} \sum_{j_s=1}^{\mathbf{l}_i+1}$$

$$\sum_{n_i=\mathbf{n}}^{(n_i-j_i+1)} \sum_{(n_s-\mathbf{l}_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(\mathbf{l}_i - j_i - \mathbf{l}_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_i-1} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=s+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}.$$

$$\sum_{k=0}^{l_i} \sum_{j_i=0}^{(n-l_i)} \sum_{j_i=s}^{(n-l_i)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n_{is}-j_{sa}^{ik})}^{(n_{ik}=n_{is}-j_{sa}^{ik})} \sum_{n_s=n_{ik}+j_{sa}^{ik}-j_i-j_{sa}^s-l_i}^{(n_{ik}=n_{is}-j_{sa}^{ik})}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot n_{sa}^{ik} - n_s - j_i - l_i - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot n_{sa}^{ik} - n_s - j_i - l_i - 3 \cdot j_{sa}^s)! \cdot (n - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}.$$

$$D \geq n < n \wedge l_i \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - n_{sa}^{ik} + 1 = l_s + j_{sa}^{ik} - s > l_{ik}$$

$$D \geq n < n \wedge l_i = 0$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l_i-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{j_i=2}^{l_i - i^k} \sum_{j_i=s}^{l_i - i^k}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(n_i - j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{j_s} \sum_{j_i=1}^{j_i}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}+j_s-j_{sa}^{lk}=\mathbf{n}_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j \leq j_i - s + 1 \wedge$$

$$j_i - s - 1 \leq j \leq \mathbf{n} \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 = l_s + l_i + j_{sa}^{ik} + j_i - l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + \mathbf{n} + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{n} = \mathbb{k} = \mathbf{n} \wedge$$

$$j_{sa}^s \neq j_{sa}^{i-1} \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq \mathbf{L} \wedge \mathbf{s} = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=2}^{l_i-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D + j_i - n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-l_i} \sum_{j_i=j_i-s+1}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z \mathcal{S}_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s)+1}^{(\mathbf{l}_i+\mathbf{n}-D-s)+1} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{(\mathbf{l}_i+\mathbf{n}-D-s)+1} \\ & \sum_{n_i=n}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \\ & \sum_{n_i=n}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{l+1} \sum_{j_s=1}^{n-l+1} \sum_{j_i=l_i+n-D}^{n-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{n-l_i}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_{sa}^i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s - 1$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=1)}^{(l_s - l_k + s - l_i - j_{sa}^{ik} + 1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_i-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^{(n_i-j_i+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_s + 1)!} \cdot \\
& \frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{l_{ik}+s-l_i-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_i-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n-j_s+1}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{is}-j_{sa}^{ik}} \sum_{(n_{sa}=j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(n_{sa}=j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}$$

$$\frac{(2 \cdot n_{ik} + j_s - 2 \cdot j_{sa}^{ik} - n_s - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_{zS} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_s - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{l_i}} \sum_{j_s=1}^{l_{ik}+s-\mathbf{n}-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}+1}^{l_{ik}+s-\mathbf{n}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_s=\mathbf{n}+\mathbb{K}-j_i+1}^{n-j_i+1}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - \mathbf{n} - 1)!}{(n_s - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_s=\mathbf{n}+\mathbb{K}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K}}^{\binom{D}{l_i}}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i=s+1}^{n_i + j_s - j_i} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
 \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!} +$$

$$\sum_{j_s=1}^{l_i - l_{i+1}} \sum_{l_i=s}^{l_i - l_{i+1}}$$

$$\sum_{n_s=n-j_i+1}^n \sum_{n_s=n-j_i+1}^n$$

$$\frac{(n_i - j_i - 1)!}{(j_i - 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s + j_i - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^{\infty} \sum_{l=0}^{\infty} \sum_{j_i=0}^{\infty}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K}}^{(\cdot)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{1}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + s - (j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$S_{j_s, j_i}^{DOSD} = \sum_{k=0}^{l_s-k} \sum_{(j_s=2)}^{l_i-k+1} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=1}^{(n_i=j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_s=n-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=0}^{l_i-l} \sum_{(j_s=1)}^{l_i-l+1} \sum_{j_i=s}^{l_i-l+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{l=1}^{l-1} \sum_{(j_s=2)}^{(l_s-1)} \sum_{j_s+s-1}^{(l_s-1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}=n_{ik}+j_s^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i} \sum_{j_i=l_i+n-D}^{l_i+l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_i+1)}^{n-j_i+1}$$

$$\frac{(n - n_s - 1)!}{(i - 2)! \cdot (n - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - i - n - 1)!}{(n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{l_i} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{l_i}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i-k} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n_s - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(l_i - l_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{k=1}^{i^{l-1} (j_i - s + 1) l_{sa} + s - k - j_{sa} + 1} \sum_{(j_s=2)}^{j_i - s + 1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{j_i - s + 1} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{\mathbf{n}} \sum_{(j_s=1)}^{l_s} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_{sa}^s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} - j_{sa}^{ik} + j_{sa} - s > j_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s - 1$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-1) \cdot (l_i-k+1)} \sum_{j_i=j_s+1}^{l_i-k+1} \frac{(n_i - j_s)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s)!} \sum_{j_i=j_s+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_i + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_{sa}=s-1}^{j_{sa}=s-1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}=n+\mathbb{k}-j_s+1}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}-j_{sa}^{ik}}^{n_{ik}=n_{is}-j_{sa}-j_{sa}^{ik}} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k})}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k})}$$

$$\frac{(2 \cdot n_{ik} + j_{sa} + 2 \cdot j_{sa}^{ik} - n_s - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_{sa} + n \cdot j_{sa}^{ik} - n_s - s - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D + n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n - l_i$$

$$l_{ik} - j_{sa}^{ik} + j_{sa} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_{\mathbf{z}} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_{sa}+s-n-l_i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_i-l_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_s - 1)!}{(i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - i - n - 1)!}{(n_s - i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{l_i-l_{sa}+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz_{j_s}^{QSD} = \sum_{k=1}^{l-j_s} \sum_{(j_s-2)}^{+n-D-j_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}}^{(n_i-j_s+1)} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l-i-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s-2)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 + j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 + j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_s-s-j_s)!} \cdot \\
& \frac{(l_s-k-j_{sa}^{ik})!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{j_s=2}^{l_s + s - k - j_{sa} + 1} \sum_{j_i=l_{sa}+n+s-k-j_{sa}+1}^{l_s + s - k - j_{sa} + 1} \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_{is} - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{j_s=2}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i=l_s + s - k + 1}^{l_{sa} + s - k - j_{sa} + 1} \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \frac{(n_i - n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{n})!}{(D + j_i - \mathbf{n} - l_i) \cdot (n - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$((D \geq \mathbf{n} < n) \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n) \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^n \sum_{j_s=1}^{(n-l_i)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_i-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_i + j_i - n_s - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - j_s - 1)!}{(l_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+j_i-s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s-k-1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_i=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{\mathbf{n}} \sum_{(n_s=\mathbf{n}+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - n - j_s + 1} \sum_{(j_s = j_i - 1)}^{(j_s = j_i)} \sum_{j_i = l_i + n - D}^{j_{sa}^{ik} + 1} \\
& \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{is} = n + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{K} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-s+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_{ik}+\mathbf{n}-D}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}-j_s+1}^{\mathbf{n}-j_s+1} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n_i-j_i-\mathbb{k}} \sum_{n_s=\mathbf{n}-j_i+1}^{n_i-n_{is}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_i+j_s-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+l_s-k+1, j_i=j_s+l_s-k+2)}^{(l_{ik}-l_s-k+2)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k, n_{is}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+l_k, n_{is}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{is}=n+l_k, n_{is}-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(2 \cdot n_{ik} + j_s - 2 \cdot j_{sa}^{ik} - n - s - 2 \cdot k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s - 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq n < n \wedge l_s = D - n + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_s - l_s + s + 1)!}{(j_s + \mathbf{n} - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k-j_{sa}^{ik}+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^k}^{l_s+s-k}$$

$$\sum_{n_i=n+l_{ik}+n+s-D-j_{sa}^k}^n \sum_{(j_s=j_i-s+1)}^{(j_s=j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^k-j_i-j_{sa}^k} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{n_{ik}+j_s+j_{sa}^k-j_i-j_{sa}^k}^{(j_s=j_s+1)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^k - n_s - j_i - s - 2 \cdot \mathbb{k} + j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \leq n < n + 1 \wedge n \geq D - l_i + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_c - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \leq n < n + 1 \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i-\mathbb{K}}^{n_{is}+j_s-j_i-\mathbb{K}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^s-k)} \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}^s-k)}^{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}^s-k)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n - j_i - s - k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n - j_i - s - k - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{(n + j_{sa}^s - s - j_s)!}{(l_s - k - 1)!} \cdot \\
& \frac{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}{(D - l_i)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_s=s+1)} \sum_{j_i=\mathbf{l}_i-\mathbf{n}+D}^{s-k} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_s+s-k+1}^{\mathbf{l}_i-k+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_i=0}^{D+l_s+s-n-l_i} \sum_{j_s=0}^{l_s+s-n-l_i} \sum_{j_i+j_s=l_i+n-D} \sum_{j_i=0}^{n-l_i-j_s+1} \sum_{j_s=0}^{n-l_i-j_i+1}$$

$$\sum_{n_i=n+l_i-j_s+1}^n \sum_{n_{is}=n+l_i-j_s+1}^{(n-l_i-j_s+1)}$$

$$\sum_{()}$$

$$n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s}^{D-D} = \sum_{k=1}^{D-\mathbf{n}} \sum_{j_s=\mathbf{l}_s+\mathbf{n}-D}^{(\mathbf{l}_i+\mathbf{n}-D-s)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DQ} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(\mathbf{l}_{sa}-k-j_{sa}+2)} \sum_{j_i=\mathbf{l}_{sa}+s-k-j_{sa}+2}^{\mathbf{l}_i-k+1} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(j_s + l_i - \mathbf{n} - l_s - s + 1)!}{(j_s + l_i - \mathbf{n} - l_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=j_i-s+1}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 S_{j_s, j_i}^{D, D} = & \sum_{j_s=\mathbf{l}_{sa}}^{D-\mathbf{n}+1} \sum_{j_i=D-j_{sa}+1}^{D-s} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_i-k+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{n_i=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s-\mathbb{k})} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s+1)}^{(\mathbf{l}_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1}
 \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - \mathbf{n} - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(j_s + l_i - \mathbf{n} - l_s - 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=\mathbf{l}_i+\mathbf{n}-D-s+1}^{j_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}-k-j_{sa}+2)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{(j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1)}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \frac{(j_i-s+1)!}{(j_i-s-k+1)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_{is}-1)!}{(n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(\mathbf{l}_i-\mathbf{l}_s-s+1)!}{(j_s+\mathbf{l}_i-j_i-\mathbf{l}_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-\mathbf{l}_i)!}{(D+j_i-\mathbf{n}-\mathbf{l}_i)! \cdot (\mathbf{n}-j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_i-n-l_i} \sum_{j_i-s+1}^{n-l_i} \sum_{l_{sa}+n+s-D-j_{sa}}^{n_{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
& \frac{(2 \cdot n_{ik} + j_s^s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + j_s^s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_i + j_s - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \bigg) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned} f_{\mathbf{Z}}^{DOSD}(\mathbf{j}_i) = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s-1)} \sum_{j_i-\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_s+s-k+1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - \mathbf{n} - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(j_s + l_i - \mathbf{n} - l_s - s - 1)!}{(j_s + l_i - \mathbf{n} - l_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^{(D+l_s+s-\mathbf{n}-l_i)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \frac{(j_i - l_{sa} - s + 1)!}{(j_i - l_{sa} - s + 1)!}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \text{DOSD}_{j_s, j_i} &= \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \frac{(n_i-j_s+1)!}{(j_s-j_i+1)!} \cdot \frac{(n_i-j_s+1)!}{(n_i-j_s+1)!} \cdot \frac{(n_i-j_s+1)!}{(n_i-j_s+1)!} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-j_s+1)} \frac{(n_{is}-1)!}{(j_s-j_i+1)! \cdot (n_i-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s+1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-j_s+1)} \frac{(n_{is}-1)!}{(j_s-j_i+1)! \cdot (n_i-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s+1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!}
\end{aligned}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \leq 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)} \sum_{j_i=s+1}^{l_{ik} + s - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{ik}+1} \sum_{(j_s=2)}^{j_{sa}^{ik}+2} \sum_{(j_s=2)}^{j_{sa}^{ik}+2} \\
& \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_i+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-lk} \\
& \frac{(n_i - n_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=n+lk}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-lk+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+1}^n \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{n_i=\mathbf{n}+1}^{n+j_s+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_s+j_{sa}^{ik}-n_s-j_i-s-2 \cdot \mathbb{k}}^{(\quad)} \sum_{(j_s=j_i-s+1)}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=i^l}^{(\quad)} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_i-j_s-j_{sa}^{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{lk}+1} \sum_{j_i=j_s+s-1}^{n-j_s-j_i-k+1} \sum_{n_i=n+k}^n \sum_{n_s=n-j_i+1}^{n_i-j_s-k-j_s+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^l \sum_{j_s=1}^{l-k} \sum_{j_i=s}^{l-k-j_s+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n-j_i+1}^{n_i-j_s-k-j_s+1}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=1}^{l-1} \sum_{i=2}^{l_{ik} - j_{ik} + 2} \sum_{j_i=j_s+1}^{n_i-j_s+1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=n_i-j_s+1}^{n_i-j_s+1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_{is}=n_i+j_{sa}^s-j_{sa}^{ik}}^{n_i+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{n_i+j_{sa}^s-j_{sa}^{ik}} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l-1} \sum_{j_s=1}^{l-1} \sum_{j_i=s}^{l-1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_s-j_{sa}^{ik}}^{n_i-j_s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{n_i-j_s-j_{sa}^{ik}} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{C}_{j_s, j_i}^{DOSD} = & \sum_{j_s=1}^{j_i-1} \sum_{(j_s=2)}^{(j_i-s+1)} l_{ik+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{K}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - k - 1)!}{(l_s - j_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s^{is})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_i-s-j_s)!} \cdot \\
& \frac{(l_s-k)}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbb{k} = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + \mathbb{k} - n + 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i = 1 \wedge$$

$$s: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \geq 2 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{i^{l-1}} \sum_{j_s=l_i+n-D-s+1}^{i^{l-1}-k-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\sum_{k=0}^{\infty} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-1} \sum_{(j_i=l_i+n-D-s+1)}^{(l_{ik}-k-1) \cdot (l_{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{n_i=n+\mathbb{k}}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{i_S}=\mathbf{n}+\mathbb{K}-j_S+1)}^{(n_i-j_S+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_{sa}^i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^{s-1}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s - 1 \wedge$$

$$\mathbb{k}_z: 2 \leq 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}. \end{aligned}$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-1-l_{ik}+1} \\
& \sum_{n_i=n+l_k}^{(n_i-j_s+1)} \sum_{n_s=n+l_k-j_s+1}^{n_{is}+j_s-j_i-l_k} \sum_{n_i=n-j_i+1}^{(n_i-j_s+1)} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^l \sum_{j_s=1}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-1-l-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-l_k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=l_{ik}+s-1}^{n-l_{ik}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}-j_{sa}^{ik}+1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n-l_{ik}-j_{sa}^{ik}+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}-j_{sa}^{ik}}^{n-l_{ik}-j_{sa}^{ik}+1} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n-l_{ik}-j_{sa}^{ik}+1} (n_s - j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})$$

$$\frac{(2 \cdot n_{ik} + j_s - 2 \cdot j_{sa}^{ik} - n_s - \mathbf{n} - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_s = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = 0 \wedge k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa} - k \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = z, s = s + k \wedge$$

$$k_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{l_s=1}^{(l_s - k + 1)} \sum_{l_i=k+1}^{l_i - k + 1} \sum_{n_i=n+l_s}^{n-l_s-j_s+1} \sum_{n_s=n+l_s-j_s+1}^{n_{is}+j_s-j_i-l_s} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{l_s=1}^{(l_s - k + 1)} \sum_{l_i=k+1}^{l_i - k + 1}$$

$$\sum_{n_i=n+l_s}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-l_s+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=0}^{l_i - (n_i - j_i - s + 1)} \sum_{j_i = j_i - s + 1}^{n_i - j_i - s + 1} \sum_{j_i = s}^{n_i - j_i - s + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{n_i = n + \mathbb{k}}^{n_i - j_s + 1} \sum_{n_i = n + \mathbb{k}}^{n_i - j_s + 1}$$

$$\sum_{n_i = n_i + j_{sa}^s - j_{sa}^{ik}}^{n_i - j_s + 1} \sum_{n_i = n_i + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{n_i - j_s + 1}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=0}^{l_i} \sum_{j_s=1}^{(j_s-1)} \sum_{j_i=s}^{(j_i-1)}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{n_i = n_i - j_s - j_{sa}^{ik}}^{n_i - j_s - j_{sa}^{ik}} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{n_i - j_s - j_{sa}^{ik}}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (n - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=1)}^{l-1} \sum_{j_i=s}^{l_i-l+1}$$

$$\sum_{n_i=n+l}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -$$

$$\sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik} \text{ } (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})} \sum_{()}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n+j_s-s-j_s)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (n-j_i)!} -$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k} \text{ } (n_{ik}=\mathbf{n}_i-j_s-j_{sa}^{ik})} \sum_{()}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (n-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (n-s)!}$$

$$((D \geq \mathbf{n} < n) \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^s = j_{sa} - \mathbb{k} \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = z, s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{j_s=0}^{(l_s-k+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \sum_{n_i=n+l_k}^{n_{is}+j_s-j_i-k+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{j_s=1}^{(l_s-k+1)} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_i - l_s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{j_i=l_i+s-k}^{j_i-s+1} \frac{(n_i - j_i + 1)!}{(n_i - j_i - k + 1)! \cdot (k - 1)!} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{j_s=j_i-s+1}^{(n_i-j_s+1)} \frac{(n_i - j_s + 1)!}{(n_i - j_s - k + 1)! \cdot (k - 1)!} \cdot$$

$$\sum_{j_s=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{(n_i-j_s+1)} \sum_{j_i=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-l_k}^{(n_i-j_s+1)} \frac{(n_i - j_s + 1)!}{(n_i - j_s - k + 1)! \cdot (k - 1)!} \cdot$$

$$\frac{(n_{ik} + j_s + 2 \cdot j_{sa}^s - n_s - j_i - n - s - 2 \cdot l_k - 2 \cdot j_{sa}^s)!}{(n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{lk} - n_s - j_i - n - 2 \cdot l_k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$((D \geq n < n + 1 \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{lk} + 1 = l_s \wedge l_i + j_{sa}^{lk} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{i_l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-j_s-k+1)} \sum_{(j_i=j_s+l_i-n+1)}^{(n_i+j_s-j_i-k)} \\
& \sum_{(n_i=n+k)}^{(n_i-j_s+1)} \sum_{(n_s=n+k-j_s+1)}^{(n_i+j_s-j_i-k)} \sum_{(j_i=j_s+1)}^{(n_i-j_s+1)} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i_l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i_l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{j_{sa}-j_s+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}-j_{sa}-j_{sa}^{ik}}^{j_{sa}-j_{sa}^{ik}} \sum_{(n_{is}=j_{sa}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{j_{sa}-j_{sa}^{ik}}$$

$$\frac{(2 \cdot n_{ik} + j_{sa} + 2 \cdot j_{sa}^{ik} - n_s - j_{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - n_s - j_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i \leq \mathbf{n}$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_i + n - D}^n \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{n_{is} + j_s - j_i} \sum_{n_s = n - j_i + 1}^{n_s - j_i + 1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2}^n \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = n - j_i + 1}^{n_s - j_i + 1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l + 1} \sum_{j_i = \mathbf{n} - D}^{n - \mathbf{n} + 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_s = \mathbf{n} - j_i + 1)}^{(n_i - j_s + 1)} \\
& \frac{(n_i - j_s)!}{(j_i - \mathbf{n})! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s + j_i - \mathbf{n} - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} - \\
& \sum_{k=1}^{D + l_s + s - \mathbf{n} - l_i} \sum_{(j_s = j_i - s + 1)}^{()} \sum_{j_i = l_i + \mathbf{n} - D}^{l_{sa} + s - k - j_{sa} + 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{K}_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\ &\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-i l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + \mathbb{k} - s - j_s)!} \cdot$$

$$\frac{(l_s - k)}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbb{k} = l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq l_i < n \wedge l = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i - \mathbb{k} \wedge$$

$$s: \{j_{sa}^i - j_{sa}^s\} \wedge$$

$$s = 2 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$l_{ik} \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^D \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n_s - j_i)!} \cdot \\
& \frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, l_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1}^{(l_{sa}+\mathbf{n}-D-j_{sa}) \wedge (l_{sa}+s-k-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=n+\mathbb{K}}^n \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i l-1} \sum_{j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=n+\mathbb{K}}^n \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - j_i - n + l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_s=1}^{l_s} \sum_{j_i=1}^{l_i} \sum_{j_s+l_i=n+1}^{l_s+l_i+n+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_{sa}^i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (n - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} = 2 \cdot \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \vee)$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{sa} + n + s - D - j_s}^{l_s + s - k} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_s + s - k + 1}^{l_{sa} + s - k - j_{sa} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-n-l_{sa}+1} \frac{(n_i - j_s + 1)!}{(j_i - j_s + 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_i - j_s + 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - s$$

$$s: \{l_{sa}, l_{sa}^{i_a}\} \wedge$$

$$s = 2 \wedge s = l_{sa} + \mathbb{k} \wedge$$

$$\mathbb{k}_{Z^+} \geq 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{l_i-1} \sum_{j_i=j_s+1}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\sum_{k=0}^{\infty} \sum_{j_s=1}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n-j)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n_s - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-n)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(j_i-s-1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_{ik}-j_s+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_i+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_s - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{\mathbf{l}_i-k+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - n - j_s + 1} \sum_{(j_s = j_i - s + 1)}^{(j_s = j_i - s + 1)} \sum_{j_i = l_i + n - D}^{j_{sa}^{ik} + 1} \\
& \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{is} = n + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{(n_i - j_s + 1)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{K} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-s+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i-k+1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(j_i + j_s - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \end{aligned}$$

$$\mathbf{s}: \{j_{sq}^s, \dots, \mathbb{K}, j_{sq}^i\} \vee \mathbf{s}: \{j_{sq}^s, \dots, j_{sq}^{ik}, \mathbb{K}, j_{sq}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_s - l_s - s + 1)!}{(j_s + j_i - l_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k-j_{sa}^{ik}+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^k}^{l_s+s-k}$$

$$\sum_{n_i=n+l_{ik}+n+s-D-j_{sa}^k}^n \frac{(n-j_s+1)!}{(n+l_{ik}+n+s-D-j_{sa}^k-j_s+1)!}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^k-j_i-j_{sa}^k} \sum_{(j_s=j_i-s+1)}^{(\quad)} \frac{(n_{ik}+j_s-j_i-j_{sa}^k-j_s+1)!}{(n_{ik}+j_s-j_i-j_{sa}^k-j_s+1)!}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^k - n_s - j_i - s - 2 \cdot \mathbb{k} + j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D > n < n_{ik} > D - l_i + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_c - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > n > l_c \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i-\mathbb{k}}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^s-k)} \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}^s-k)}^{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}^s-k)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n - j_i - s - k - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n - j_i - s - k - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{(n + j_{sa}^s - s - j_s)!}{(l_s - k - 1)!} \cdot \\
& \frac{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}{(D - l_i)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee
\end{aligned}$$

$$\begin{aligned}
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee
\end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{\substack{(j_s-s+1) \\ (j_s=\mathbf{l}_s+\mathbf{n}-D)}}^{(\mathbf{l}_s-s+1)} \sum_{\substack{s-k \\ j_i=\mathbf{l}_i+\mathbf{n}-D}}^{s-k} \\ & \sum_{\substack{(n_i-j_s+1) \\ n_i=\mathbf{n}+\mathbb{K}}}^{(n_i-j_s+1)} \sum_{\substack{(n_{is}+j_s-j_i-\mathbb{K}) \\ n_{is}=\mathbf{n}+\mathbb{K}-j_s+1}}^{(n_{is}+j_s-j_i-\mathbb{K})} \sum_{j_i+1}^{j_i+1} \\ & \frac{(j_s-2)! \cdot (n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\ & \frac{(n_{is}-n_s-\mathbb{K}-1)!}{(j_i-\mathbf{l}_i-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{K})!} \cdot \\ & \frac{(n_s-1)!}{(n_s+j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \\ & \frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\ & \frac{(\mathbf{l}_i-\mathbf{l}_s-s+1)!}{(j_s+\mathbf{l}_i-j_i-\mathbf{l}_s)! \cdot (j_i-j_s-s+1)!} \cdot \\ & \frac{(D-\mathbf{l}_i)!}{(D+j_i-\mathbf{n}-\mathbf{l}_i)! \cdot (\mathbf{n}-j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{\substack{(\mathbf{l}_s-k+1) \\ (j_s=\mathbf{l}_s+\mathbf{n}-D)}}^{(\mathbf{l}_s-k+1)} \sum_{\substack{\mathbf{l}_i-k+1 \\ j_i=\mathbf{l}_s+s-k+1}}^{\mathbf{l}_i-k+1} \\ & \sum_{\substack{n \\ n_i=\mathbf{n}+\mathbb{K}}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}}^{(n_i-j_s+1)} \sum_{\substack{n_{is}+j_s-j_i-\mathbb{K} \\ n_s=\mathbf{n}-j_i+1}}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \end{aligned}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=0}^{l_s+s-\mathbf{n}-j_i} \sum_{j_i+j_s+l_i=\mathbf{n}-D} \sum_{j_i+j_s+l_i=\mathbf{n}-D} \sum_{j_i+j_s+l_i=\mathbf{n}-D}$$

$$\sum_{n_i=\mathbf{n}+j_i}^{\mathbf{n}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}-j_{sa}^{ik}}^{()}$$

$$(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < \mathbf{n} + 1 \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_i - j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < \mathbf{n} + 1 \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s}^{D,D} &= \sum_{k=1}^{D-\mathbf{n}} \sum_{j_s=\mathbf{l}_s+n-D}^{(\mathbf{l}_i+n-D-s)} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_i-k+1} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n - n_s - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbb{k} - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fzS_{j_s, j_i}^{DO} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - \mathbb{k} + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=j_i-s+1}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} & \sum_{j_s=j_i}^{D-n+1} \sum_{(j_s=\mathbf{l}_{sa}-D-j_{sa}+1)}^{D-s} \sum_{j_i=\mathbf{l}_i+n-D}^{\mathbf{l}_i-k+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^{\mathbf{n}} \sum_{(n_i=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s-\mathbb{K})} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-n+1} \sum_{(j_s=\mathbf{l}_i+n-D-s+1)}^{(\mathbf{l}_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - \mathbb{k} + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - \mathbf{n} - l_s - 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=\mathbf{l}_i+\mathbf{n}-D-s+1}^{j_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}-k-j_{sa}+2)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_s=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_i-n-l_i} \sum_{j_i-s+1}^{n-l_i} \sum_{l_{sa}+n+s-D-j_{sa}}^{n_{ik}+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(n_i-j_s+1)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{K} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{\text{ik}}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n-D-j_{sa}+1}^{(l_{sa}+n-D-j_{sa}+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{\text{ik}}+2)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-k-j_{sa}+1)} \frac{(n_i - j_s + 1)!}{(n_i - n_{is} - 1)!} \cdot \frac{(n_{is} + j_s - j_i - k)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-l_i-k+1)}^{(l_{ik}-k+1)} \sum_{(j_i=j_s+l_i-k+1)}^{(n-l_i-k+1)} \sum_{(n_i=n+l_k)}^{(n_i-j_s+1)} \sum_{(n_{is}=n+l_k)}^{(n_{is}-j_s+1)}$$

$$\sum_{(n_{is}=n+l_k)}^{(n_{is}-j_s+1)} \sum_{(n_{ik}=n+l_k)}^{(n_{ik}-j_s+1)} \sum_{(n_{sa}=n+l_k)}^{(n_{sa}-j_s+1)} \sum_{(n_{sa}=n+l_k)}^{(n_{sa}-j_s+1)}$$

$$\frac{(n_{ik} + j_s - 2 \cdot j_{sa}^{ik} - n - s - 2 \cdot k - 2 \cdot j_{sa}^s)!}{(n_{ik} + 2 \cdot j_s - 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$((D \geq n < n \wedge l_s = n - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \bigg) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_{\mathbf{Z}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s-1)} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_s+s-k} \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{K})} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_{sa}+s-k-j_{sa}+1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - \mathbb{k} + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)! \cdot (i_s - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$DOSD_{j_s, j_i} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}}^{\mathbf{l}_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \frac{(n_i-j_s+1)!}{(j_s-j_i)! \cdot (n_i-j_s+1)!} \cdot \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-j_s+1)} \frac{(n_{is}-1)!}{(j_s-j_i)! \cdot (n_i-j_s+1)!} \cdot \\
& \frac{(n_{is}-n_s+l_k-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-l_k)!} \cdot \\
& \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
\end{aligned}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - \mathbf{l}_s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \leq 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)} \sum_{j_i=s+1}^{l_{ik} + s - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{ik}+1} \sum_{(j_s=2)}^{j_{sa}^{ik}+2} \sum_{(j_s=2)}^{j_{sa}^{ik}+2} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_i+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-\mathbb{k}} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_i - n_s - j_s + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+1}^n \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{n_i=\mathbf{n}+1}^{n+j_s+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_s+j_{sa}^{ik}-n_s-j_i-s-2 \cdot \mathbb{k}}^{(\quad)} \sum_{(j_s=j_i-s+1)}^{(\quad)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=i^l}^{(\quad)} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_i-j_s-j_{sa}^{ik})}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOSD} = \sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=1}^{l-1} \sum_{i=2}^{l_{ik} - j_{ik} + 2} \sum_{j_i=j_s+1}^{n_i-j_s+1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=n_i-j_s+1}^{n_i-j_s+1} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_{is}=n_i+j_{sa}^s-j_{sa}^{ik}}^{n_i+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{n_i+j_{sa}^s-j_{sa}^{ik}} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=i}^l \sum_{j_s=1}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_s-j_{sa}^{ik}}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{C}_{j_i, j_s}^{DOSD} = & \sum_{j_i=1}^{n-1} \sum_{j_s=2}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - k + 1)!}{(l_s - j_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s^{is})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} \text{ } (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 1 - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_i-s-j_s)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$S: \{j_{sa}^i, \dots, \mathbb{k}, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa}^i + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \geq 2 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (l_i+n-D-s)} \sum_{(j_s=2)}^{()} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{i=1}^{l-1} \sum_{j_s=l_i+n-D-s+1}^{k-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^D \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-l^{l+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - \mathbb{k} - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-1} \sum_{(j_i=l_i+n-D-s+1)}^{(l_{ik}-k-1) \cdot (l_{ik}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{n_i=n+\mathbb{k}}^{n_i+j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned} & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i=l_s+s-k+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{(n-l_i)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1} l_{ik}^{(n-l_i)} \cdot$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(n-l_i)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} l_{ik}^{(n-l_i)} \cdot$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_{sa}^{ik})!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^{is}, \dots, \mathbb{k}, j_{sa}^i\} \vee \{j_{sa}^{is}, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s - 1 \wedge$$

$$\mathbb{k}_z: 2 \leq \mathbb{k} \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}. \end{aligned}$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{(l_s-k+1)} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{(l_s-k+1)} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{(l_s-k+1)} \\
& \frac{(n_i - j_s + 1)! \cdot (n_{is} + j_s - j_i - k)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{(l_s-k+1)} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{(l_s-k+1)} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{(l_s-k+1)} \\
& \sum_{n_i=n+k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-k+1)} \\
& \frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=l_{ik}+s-1}^{n-l_{ik}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}-l_{ik}-j_{sa}^{ik}+1}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n-l_{ik}-j_{sa}^{ik}+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}-j_{sa}^{ik}}^{n-l_{ik}-j_{sa}^{ik}+1} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{n-l_{ik}-j_{sa}^{ik}+1} (n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(2 \cdot n_{ik} + j_s - 2 \cdot j_{sa}^{ik} - n_s - \mathbf{n} - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_s = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - \mathbb{K} \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \rightarrow s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > z \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{l_s=0}^{(l_s-1)} \sum_{l_i=k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^{n-j_s+1} \sum_{n_s=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{l_s=1}^{(l_s-1)} \sum_{j_i=s}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=0}^{i-l} \sum_{j_i=j_i-s+1}^{(\cdot)} \sum_{j_i=s}^{s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}+j_{sa}^s-j_{sa}^{ik}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\cdot)} \sum_{n_{is}+j_{sa}^s-j_{sa}^{ik}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\cdot)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^i \sum_{j_s=1}^{(\cdot)} \sum_{j_i=s}^{(\cdot)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\cdot)}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - l)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i - l^{l+1}} \sum_{j_i=s} \\
& \sum_{n_i=n+l}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l+1)} \\
& \frac{(n_i - n_s - l - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - l + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n+j_s-s-j_s)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (n-j_i)!} \cdot$$

$$\sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)! \cdot (n-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (n-s)!}$$

$$((D \geq \mathbf{n} < n) \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > z \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{l_s=0}^{(l_s-i+1)} \sum_{l_i=k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^{n-j_s+1} \sum_{n_s=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{l_s=1}^{(l_s-i+1)} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_i=s+1}^{n-l_i-s-k} \frac{(n_i - j_i - s - k)!}{(n_i - j_i - s - k)! \cdot (n_i - j_i - s - k)!}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{j_s=1}^{(n_i-j_s+1)} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)! \cdot (n_i - j_s + 1)!}.$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{j_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \frac{(n_i - j_s + 1)!}{(n_i - j_s + 1)! \cdot (n_i - j_s + 1)!}.$$

$$\frac{(n_{ik} + j_{sa}^s - 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_{ik} + 2 \cdot j_s - 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{i_l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-j_s-k+1)} \sum_{(j_i=j_s+l_i-n+D-s+1)}^{(n-j_i-k+1)}$$

$$\sum_{(n_i=n+l_k)}^{(n_i-j_s+1)} \sum_{(n_s=n+l_k-j_s+1)}^{(n_{is}+j_s-j_i-k)} \sum_{(j_i=j_i+1)}^{(n_{is}-j_i-k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i_l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i_l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{j_{sa}-j_s+1}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}-j_{sa}-j_{sa}^{ik}}^{j_{sa}-j_{sa}^{ik}} \sum_{(n_{is}=j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{j_{sa}-j_{sa}^{ik}}$$

$$\frac{(2 \cdot n_{ik} + j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - n_s - j_{sa}^{ik} - s - j_{sa}^{ik} - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_{sa}^{ik} + j_{sa}^{ik} - n_s - j_{sa}^{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i \leq \mathbf{n}$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_i + n - D}^n \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{n_{is} + j_s - j_i} \sum_{n_s = n - j_i + 1}^{(n_s - 1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2}^n \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = n - j_i + 1}^{(n_s - 1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_{i+1}} \sum_{j_i=\mathbf{n}-D}^{n - \mathbf{n} - D}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - l_s - \mathbb{k} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s + j_i - \mathbf{n} - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{K}_z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\ &\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ &\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-}$$

$$\frac{(n_i - n_{is} - \mathbb{K} + 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-i l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + \mathbb{k} - s - j_s)!} \cdot \\
& \frac{(l_s - k)}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq j_s + 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbb{k} = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq l_i < n \wedge l_i = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^i, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$l_{ik} \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^D \sum_{(j_s=1)}^{(l_s)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - \mathbb{k} + 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=1)}^{(l_s)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(j_s=1)}^{(l_s)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i-1} \sum_{j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1}^{\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i-1} \sum_{j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_s=1}^{l_s} \sum_{j_i=1}^{l_i} \sum_{j_s+l_i=n_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_{sa}^s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} = 2 \cdot \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \vee)$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{sa} + n + s - D - j_s}^{l_s + s - k} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_s + s - k + 1}^{l_{sa} + s - k - j_{sa} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{D-j_{sa}} \frac{(n_i - l_s - \mathbb{k} - 1)!}{(n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_s+1)} \frac{(n_i - l_s - \mathbb{k} - 1)!}{(n_i + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} - \\
& \sum_{k=1}^{l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - j_{sa}^s \leq j_i - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s \neq j_i + \mathbb{k} \wedge$$

$$\mathbb{k}_{Z^+} = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-D-j_{sa}+1}^{l_i-1} \sum_{j_i=j_s+s-1}^{(l_s-1) \quad l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_s=1)}^{(l_s+s-n)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-n-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l_s - s + 1)!}{(l_s - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-n)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(l_s-n_{ik})}$$

$$\frac{(2 \cdot n_{ik} + j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}{(2 \cdot n_{ik} + 2 \cdot j_s + 2 \cdot j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 3 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(j_i=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{ik}+\mathbf{n}-D-j_{sa}^{ik})}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}}^{\mathbf{l}_i-k+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(n - l_i)!}{(n - j_i - 1)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - n - 1} \sum_{j_s=j_i-s+1}^{(j_s=j_i-s+1)} \sum_{j_i=l_i+n-D}^{j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_i+\mathbf{n}-D-s)} \sum_{l_i-k+1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i-j_s-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\ & \frac{(n_i-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \\ & \frac{(n_s-1)!}{(n_s-j_i-\mathbf{n}-1)! \cdot (\mathbf{n}-j_i)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\ & \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \\ & \frac{(D-l_i)!}{(D+j_i-\mathbf{n}-l_i)! \cdot (\mathbf{n}-j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\ & \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+l_s-k+1, j_i=j_s+l_s-k+2)}^{(l_{ik}-l_s-k+2)} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k}^{(n_i-j_s+1)} \cdot$$

$$\sum_{n_{is}=n+l_k}^{(n_i-j_s+1)} \sum_{n_{ik}=n+l_k}^{(n_i-j_s+1)} \cdot$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa} - n - j_i - s - 2 \cdot k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$D \geq n < n \wedge l_s = D - n + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge I = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{\mathbf{l}_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(\mathbf{l}_i + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D)}^{(\mathbf{l}_s-k+1)} \sum_{j_i=\mathbf{l}_s+s-k-j_{sa}^{ik}+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \\
& \sum_{n_i=n+l_{ik}+n+s-D-j_{sa}^{ik}}^n \sum_{(j_s=j_i-s+1)}^{(j_s=j_i+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{(\quad)} \sum_{(j_s=j_i-s+1)}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot j_{sa}^{ik})!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^{ik})!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \leq n < n+1 \wedge n \geq D - s + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \leq n < n+1 \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - s \wedge$$

$$s: \{j_{sa}^i, j_{sa}^s\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{\mathbf{n}-n+1} \sum_{j_i=\mathbf{n}-D-j_{sa}^{ik}+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-s-\mathbb{k}-j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_s-s-j_s)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik})) \wedge \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge \\
& D \geq n < n \wedge l = \mathbb{k} = 0 \wedge
\end{aligned}$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_i+\mathbf{n}-k}^{l_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=n-D}^{l_s+s-k} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n-k-1} \\
& \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{is}+j_{sa}^{ik}} \sum_{(n_{is}=n+k+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - n - 2 \cdot k - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \leq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\
& ((D \leq n < n \wedge l_s > D - n + 1 \wedge \\
& 2 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee
\end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & f_z S_{j_s, j_i}^{DOSD} \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - j_i - 1)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{l_s + s - n - l_i} \sum_{j_s=l_i+n-s+1}^{l_s-k} \sum_{j_i=j_s+s-1}^{n-l_i-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}}^{l_{sa}+s-k-j_{sa}+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-l_s+1)}^{(l_s+s-n-l_i+1)} \sum_{j_i=l_i+n-l_s+1}^{(l_s+s-n-l_i+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk})}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^s - n - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot l_k + j_{sa}^{lk} - n_s - j_i - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n - l_s + 1 \wedge l_s > D - n + 1 \wedge$$

$$D \geq n < n - l_s + 1 \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{lk} + 1 = l_s \wedge l_{sa} + j_{sa}^{lk} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n - l_s + 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\sum_{n_i=n}^n \sum_{j_s=n+l_i-j_i+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(n_{ik})} \sum_{j_s=n_{ik}+j_s}^{(j_s+1)} \sum_{j_i=j_s+s-1}^{(j_s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 + j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n_{ik} > D - s + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n_{ik} \wedge I = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s \in \{j_{sa}, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l_{ik}+1} \sum_{(j_s-j_{sa}+1)}^{(l_{ik}-j_{sa}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s^{is})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-\mathbb{k}-j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_s-s-j_s)!} \cdot \\
& \frac{(l_s-k)}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{sa} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = 0 = 0 \wedge$$

$$j_{sa}^s \leq j_s - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\},$$

$$s > j_s - 1 = s \Rightarrow$$

$$\begin{aligned}
f_z^{DOSD} S_{j_s, j_i} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-2\cdot\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2\cdot j_s+j_{sa}^{ik}-n_s-j_i-\mathbf{n}-2\cdot j_s-2\cdot j_{sa}^s)!} \cdot \\
& \frac{(n_{is}-s-j_s)!}{(n_{is}-s-j_s)!} \cdot \\
& \frac{(l_s-j_s-k-1)!}{(l_s-j_s-k-1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-n_{ik}-\mathbf{n}-l_i)(\mathbf{n}-j_i)!}{(D-n_{ik}-\mathbf{n}-l_i)(\mathbf{n}-j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i + l_s - s + 1)!}{(j_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_s+\mathbf{n}-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_s+s-k}$$

$$\sum_{n_i=n}^n \frac{(n-j_s+1)!}{(n-j_s+1)!}$$

$$\sum_{n_{ik}=n_{is}+1}^{(\quad)} \sum_{n_{ik}+j_s=n_{ik}+j_s}^{(\quad)} \frac{(n_{ik}-j_i-j_{sa}^s-k)!}{(n_{ik}-j_i-j_{sa}^s-k)!}$$

$$\frac{(n_{is} + n_{ik} + j_s + n_{ik} - n_s - j_i - s - 2 \cdot j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^s - n_s - j_i - s - 2 \cdot k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_s+\mathbf{n}-D-j_{sa}+1)}^{(\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa})} \sum_{(j_i=\mathbf{l}_{sa}+\mathbf{n}+s-D-j_{sa}+1)}^{(\mathbf{l}_{sa}+s-k-j_{sa}+1)} \frac{\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(\mathbf{l}_s-k-1)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{l_{sa}+n_{ik}+j_{sa}^{ik}+j_i-j_s-1}^{(l_s-k-1)!} \sum_{n_{is}=n+l_k-j_s+1}^{(n_{is}+j_s-1)!}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}^{ik}-1)!} \sum_{n_{is}=n+l_k-j_s+1}^{(n_{is}+j_s-1)!}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}^{ik}-1)!} \sum_{n_{is}=n+l_k-j_s+1}^{(n_{is}+j_s-1)!}$$

$$\frac{(n_{is} + n_{ik} + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot l_k + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l_s \leq D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{ik}} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 1}^{n_i + j_s - j_i} \\ & \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_i - n_s - 1)!}{(j_i - s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_{ik} - k - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{ik} - k + 1} \sum_{j_i = l_{ik} + s - k - j_{sa}^{ik} + 2}^{l_i - k + 1} \\ & \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_i=1}^{l_i} \sum_{j_s=1}^{l_s} \frac{(n_i - j_i + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\sum_{n_i=n}^{n_i+l_i} \sum_{n_s=n}^{n_s+l_s} \frac{(n_i - j_i + 1)!}{(n_i - j_s + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\sum_{k=0}^{l_i} \sum_{l=0}^{(j_s-1)} \sum_{j_i=s}^{(n-l_i-l_s-k+1)}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^n \sum_{(n_{ik}=\boldsymbol{n}-j_i-j_{sa}^{ik})}^{(n-l_i-l_s-k+1)} \sum_{n_s=n_{ik}+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n-l_i-l_s-k+1)}$$

$$\frac{(n_i + n_{ik} + j_s - j_{sa}^{ik} - n_s - j_{sa}^s - \mathbb{k} + 1)!}{(n_i + n_{ik} + 2 \cdot j_s - j_{sa}^{ik} - n_s - j_{sa}^s - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (\boldsymbol{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge l_i \leq D - \boldsymbol{n} + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \boldsymbol{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa}^{ik} + j_{sa}^{ik} - s > l_{ik} - j_{sa}^{ik} + 1$$

$$D \geq \boldsymbol{n} < n \wedge \mathbb{k} = 0$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge$$

$$\{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}}^n \sum_{(n_{is}=\boldsymbol{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{j_i=2}^{l_i - i^k} \sum_{j_i=s}^{l_i - i^k}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \cdot$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=1)}^{j_i-s+1} \sum_{j_i=n-D}^{\mathbf{n}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n_{ik}+j_s-j_{sa}^{ik}-n_s-j_i-s-2\cdot\mathbb{k}-j_{sa}^s) \wedge (n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i - s - 1 \leq j_s \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} + j_{sa}^{ik} + 1 = \mathbf{l}_s + \mathbf{l}_i + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{l}_i < \mathbf{l}_i \leq D + j_i + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_i = \mathbb{k} = \mathbf{l}_s \wedge$$

$$j_{sa}^s \neq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq \mathbf{L} \wedge \mathbf{s} = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=2}^{l_i-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\sum_{i=1}^n l_i} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i-l_i+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-l_i} \sum_{j_i=j_i-s+1}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(j_s + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s)+1}^{(\mathbf{l}_i+\mathbf{n}-D-s)+1} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{(\mathbf{l}_i+\mathbf{n}-D-s)+1} \\ & \sum_{n_i=\mathbf{n}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{n}-D-s+1)}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_i-k+1} \\ & \sum_{n_i=\mathbf{n}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_i} \sum_{j_s=1}^{l_s} \sum_{j_i=l_i+n-D}^{l_i+l+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_{sa}^i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s - 1$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=1)}^{(\mathbf{l}_s-\mathbf{l}_i+k+s-i\mathbf{l}-j_{sa}^{ik}+1)} \sum_{j_i=\mathbf{l}_i+k+s-i\mathbf{l}}^{i\mathbf{l}+k+s-i\mathbf{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}}^{(n_i-j_s)} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s)} \sum_{j_i=\mathbf{l}_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{(j_s=1)}^{(\mathbf{l}_s-\mathbf{l}_i+k+s-i\mathbf{l}-j_{sa}^{ik}+1)} \sum_{j_i=\mathbf{l}_i+k+s-i\mathbf{l}}^{i\mathbf{l}+k+s-i\mathbf{l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+l_s-s-k}^{l_s+s-k} \sum_{n_i=n}^{D-j_{sa}^{ik}} \sum_{n_{is}=n+l_k-j_s+1}^{()}$$

$$\sum_{n_{ik}=n_{is}+j_s-j_{sa}^{ik}}^{()} \sum_{(n_{is}=n+l_k-j_s+1+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_{sa}^{ik} + j_{sa}^{ik} - n_s - j_i - s - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_s - j_s - k + 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_{ik} + l_s - s + 1)!}{(l_{ik} + l_s - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{\binom{D-l_i}{j_s=1}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{lk}}^{l_{ik}+s-j_i-l_{sa}^{lk}+1} \sum_{j_s=j_s+s-1}^{l_i-j_{sa}^{lk}+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n-j_i+1}$$

$$\frac{(n - n_s - 1)!}{(i - 2)! \cdot (n - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - i - n - 1)!}{(n_s - i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{lk}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(l_s-k+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-k)}^{\binom{D-l_i}{j_s=1}}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{lk} - n_s - j_i - s - 2 \cdot k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{lk} - n_s - j_i - n - 2 \cdot k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i=s+1}^{n_i + j_s - j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i=l_s+s-k+1}^{l_i - k + 1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!} + \\
& \sum_{i=1}^{l-1} \sum_{(j_s=1)}^{l-i} \sum_{l_i=s}^{l-i+1} \\
& \sum_{i=1}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{j_i-1} \\
& \frac{(n_i - j_i - 1)!}{(j_i - 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s + j_i - \mathbf{n} - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} - \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=0}^{\infty} \sum_{l=0}^{\infty} \sum_{j=0}^{\infty}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_k-j_{sa}^s-l_k}$$

$$\frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - 2 \cdot l_k - 2 \cdot j_{sa}^s)! \cdot (n - s)!} \cdot$$

$$\frac{1}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + s - (j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$(\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & \sum_{j_s=1}^{(l_s-k)} \sum_{j_i=j_s+s-1}^{l_i-k+1} S_{j_s, j_i}^{DOSD} \sum_{n_i=j_s}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=l}^{()} \sum_{j_s=1}^{l_i - l + 1} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{l-1} \sum_{(j_s=2)}^{(l_s-1)} \sum_{n_s=s-1}^{n_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}=\mathbf{n}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)}$$

$$\frac{(n_{is} + n_{ik} + j_{sa}^s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + j_{sa}^s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=\mathbf{l}}^{(\cdot)} \sum_{(j_s=1)}^{(\cdot)} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(\cdot)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 = l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$\begin{aligned}
 f_{\mathbf{z}} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i - l_s} \sum_{(j_s=1)}^{l_i - l_s} \sum_{j_i=l_i+n-D}^{l_i - l_s + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_i - j_i - \mathbf{n} - 1)!}{(n_i - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{l_s+s-k} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_{i+1}}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_i} \sum_{j_s=1}^{(n - l_i + 1)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n}^n \sum_{(n_i=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_i + j_i - n_s - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - j_s - 1)!}{(l_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} & f_z S_{j_s, j_i}^{DOS} \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2}^{l_i - k + 1} \\ & \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{l_s} \sum_{j_s=1}^{(n-l_s)} \sum_{j_i=l_i+n-D}^{l_s+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{(n-l_s)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-2\cdot\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2\cdot j_s+j_{sa}^{ik}-n_s-j_i-\mathbf{n}-2\cdot\mathbb{k}-2\cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n}+j_{sa}^s-s-j_{sa}^s)!}.$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!}.$$

$$\frac{(D-l_i)!}{(D+j_i+l_i-l_i)! \cdot (n-l_i)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} - j_{sa}^{ik} + j_{sa} - s > j_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s - 1$$

$$_{fz} S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^l-1} \sum_{(j_s=2)}^{(l_i+\mathbf{n}-D-s)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+1, \dots, D-s+1)}^{(l_{sa}-k+1, \dots, l_{sa}-2)} \sum_{j_i=j_s+1}^{l_{sa}-k+1} \frac{(n_i - j_s)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\sum_{n_i=n}^{(n_i-j_s)} \sum_{(n_{is}=n-j_s+1)}^{(n_{is}+j_s-j_i)} \sum_{j_i=j_s+1}^{l_i-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{is}+j_{sa}-j_{sa}^{ik})} \sum_{(n_{is}+j_{sa}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}+j_{sa}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - s - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D + \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} - s + 1 \wedge$$

$$j_s + \mathbf{n} - 1 \leq j_i \leq \mathbf{n}$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$\begin{aligned}
 f_{z} S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_{sa}+s-n-l_i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-n-l_i} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{l_{sa}+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-n-l_i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{l_{sa}+s-n-l_i} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s}^{QSD} = \sum_{k=1}^{l-j_s+1} \sum_{(j_s-2)}^{+n-D-j_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_{sa}+s-i^l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
& \sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s-2)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)} \sum_{(n_{is}=n+l_k-j_s-2)}^{(n_i-j_s+1)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-l_k-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-s-2 \cdot l_k-j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_s-s-j_s)!} \cdot \\
& \frac{(l_s-k-j_{sa}^{ik})!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{j_s=2}^{l_s + s - k - j_{sa} + 1} \sum_{j_i=l_{sa} + n + s - k - j_{sa} + 1}^{l_s + s - k - j_{sa} + 1} \\ & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_s - n_{is} - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{j_s=2}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i=l_s + s - k + 1}^{l_{sa} + s - k - j_{sa} + 1} \\ & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \frac{(n_i - j_s + 1)!}{(n_i - j_s - k + 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \frac{(n_i - j_s + 1)!}{(n_i - j_s - k + 1)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{n})!}{(D + j_i - \mathbf{n} - l_i)!(n - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{\binom{D}{l_i}} \sum_{(j_s=1)}^{l_{sa}+s-1} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l-j_{sa}+1}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_i-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - j_i + 1)!} \cdot$$

$$\frac{(n_i - n_s - 1)!}{(n_i + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - j_s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_{sa}+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{s-k-1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{D}{l_i}} \sum_{(n_s=\mathbf{n}_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_i=l_{ik}+s-k-j_{sa}^{ik})}^{l_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i+j_s-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{l_s+s-\mathbf{n}+1} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+\mathbf{n}-D}^{j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(\quad)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-s+1)}^{(l_i+n-D-s)} \sum_{j_i=l_{ik}+n-D}^{l_i-k+1} \sum_{n_i=n+l_k-j_s+1}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(j_i+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}.$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\boldsymbol{n}+s-D-j_{sa}^k}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+j_{sa}^k-j_s+1}^n \frac{(n-j_s+1)!}{(n+1-j_s+1)!}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^k-j_s+1}^{(\quad)} \sum_{n_{ik}+j_s+j_{sa}^k-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)}$$

$$\frac{(n_{is}+n_{ik}+j_s+j_{sa}^k-n_s-j_i-s-2\cdot j_{sa}^s)!}{(n_{is}+n_{ik}+2\cdot j_s+j_{sa}^{ik}-n_s-j_i-s-2\cdot \mathbb{k}-2\cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+j_{sa}^s-s-j_s)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)! \cdot (\boldsymbol{n}-j_i)!}$$

$$D > \boldsymbol{n} < n \wedge \boldsymbol{n} > D - \boldsymbol{n} + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq \boldsymbol{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_c - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > \boldsymbol{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\boldsymbol{s}: \{j_{sa}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i-k}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i=\mathbf{n}-\mathbb{k})}^{(n_{is}+j_{sa}^s-j_{sa}^{ik}-j_i)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - \mathbf{n} - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - \mathbf{n} - j_i - s - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{(n + j_{sa}^s - s - j_s)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-s+1)} \sum_{j_i=l_i-n+D}^{s-k} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - k)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=0}^{l_s+s-\mathbf{n}-j_i} \sum_{n_i=\mathbf{n}+j_i}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \frac{(n_{is} + n_{ik} + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot \mathbb{k} + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$fz S_{j_s}^{i, D} = \sum_{k=1}^{D-n} \sum_{j_i=l_s+n-D}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - \mathbf{n} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i - \mathbf{n} - j_i - j_s)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - j_s - k + 1)!}{(l_s + j_s - k + 1 - \mathbf{n} - j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (\mathbf{n} - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DO} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=j_i-s+1}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{j_s, j_i}^{SD} = \sum_{j_s=l_{sa}}^{D-n+1} \sum_{j_i=D-j_{sa}+1}^{D-s} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{n_i=n+k-j_s+1}^{(n_i-j_s-k)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{k=\mathbf{l}_i+\mathbf{n}-D-s+1}^{j_{sa}-k-j_{sa}+2} \sum_{j_i=j_s+s-1}^{j_s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_i+j_s-j_i-1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - n_s - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{k=1}^{D+l_i-n-l_i} \sum_{j_s=j_i-s+1}^{n-l_i-l_s+1} \sum_{l_{sa}=l_{sa}+n+s-D-j_{sa}}^{n-l_i-l_s+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_i=l_{sa}+n-D-j_{sa})}^{(l_{sa}+s-k-j_{sa}+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_i + j_s - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+n_{is}-j_{sa}+1)}^{(l_{ik}-k-\mathbf{n})} \sum_{j_i=j_s+1}^{(n_{is}-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa} - \mathbf{n} - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n) \wedge \mathbf{n} - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s-1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_i=\mathbf{n}-s+1)}^{l_s+s-k} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \text{DOSD}_{j_s, j_i} &= \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} + \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+\mathbb{K}}^{j_i-\mathbb{K}} \\
& \frac{(n_{is}-1)!}{(j_s-1)! \cdot (n_i-n_s+1)!} \cdot \\
& \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \\
& \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(\quad)}
\end{aligned}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - k)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{\mathbf{l}-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{lk}+2)} \sum_{i=l_{ik}+s-1}^{l-k+1} \sum_{j_{sa}^{ik}+2}^{l-k+1} \sum_{n_i=n-\mathbb{K}}^n \sum_{n_s=n-j_i+1}^{(j_s+1)} \sum_{n_i=n-\mathbb{K}}^{(j_i-\mathbb{K})} \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_s - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i-l+1} \sum_{j_i=s}^{l_i-l+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} - \\
& \sum_{k=1}^{l_i-1} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+1}^n \sum_{(n+j_s+1)}^{(n+j_s+1)} \sum_{(n+j_s+1)}^{(n+j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()} \sum_{(n+j_s+1)}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()} \\
& \frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{j_i=j_s+s-1}^{l-k-j_{sa}^{lk}+2} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=1}^l \sum_{j_s=1}^{l-k} \sum_{j_i=s}^{l-k-j_s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot \sum_{k=1}^{l-1} \sum_{i_k=2}^{l_{ik}} \sum_{j_i=j_s+s}^{n_{ik}+2} \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{K}}^{n_i-j_s+1} \sum_{n_{ik}=n_i-j_s-j_{sa}^{ik}}^{n_i-j_s+1} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{K}}^{n_i-j_s+1} \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!} \cdot \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \sum_{k=l}^{(\quad)} \sum_{j_s=1}^{(\quad)} \sum_{j_i=s}^{(\quad)} \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{ik}=n_i-j_s-j_{sa}^{ik}}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{K}}^{(\quad)} \frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbf{c}_{j_{ik}, j_i}^{DOSD} = & \sum_{j_s=1}^{j_i-1} \sum_{(j_s=2)}^{(j_i-s+1)} l_{ik+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - k - 1)!}{(l_s - j_i - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+\mathbb{k})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-\mathbf{n}-2 \cdot \mathbb{k}-j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n}+j_i-s-j_s)!} \cdot \\
& \frac{(l_s-k)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$\mathbf{s}: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \geq 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=0}^{i^{l-1}} \sum_{j_s=l_i+\mathbf{n}-D-s+1}^{i^{l-1}-k-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-k-j_{ik}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(j_s + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_s+s-k}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^{n_i=j_s+1} \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_s=n-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-1} l_{ik}^{ik} a^{ik+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_s+s-k} l_{ik}^{ik} a^{ik+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_{sa}^i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^{s-1}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s - 1 \wedge$$

$$\mathbb{k}_z: 2 \leq 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i l-1} \sum_{(j_s=2)}^{(l_{ik}+\mathbf{n}-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}. \end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+n-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{l_k+s-l_{ik}+1}$$

$$\sum_{n_i=n+l_k}^{(n_i-j_s+1)} \sum_{(n_i+n+l_k-j_s+1)}^{n_{is}+j_s-j_i-l_k} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^l \sum_{j_s=1}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_{ik}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-l_k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}+1}^{j_i=l_{ik}+n-D-j_{sa}^{ik}+1} \sum_{j_s=s-1}^{j_s=s-1}$$

$$\sum_{n_i=n-l_{ik}+j_{sa}^{ik}-j_i+1}^n \sum_{n_{is}=n+l_k-j_s+1}^{n_{is}=n+l_k-j_s+1}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i+1}^{n_{ik}=n_{is}+j_{sa}^{ik}-j_i+1} \sum_{n_{is}=n+l_k-j_s+1}^{n_{is}=n+l_k-j_s+1} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i+1}^{n_{ik}=n_{is}+j_{sa}^{ik}-j_i+1} \sum_{n_{is}=n+l_k-j_s+1}^{n_{is}=n+l_k-j_s+1}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$(j_s + s - 1 \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_i - s + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbf{n} \wedge \mathbf{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa} - \mathbf{k} \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = z \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i-1} \sum_{l=0}^{(l_s - k + 1)} \sum_{s=k+1}^{l_i - k + 1} \sum_{n_i=n+l}^{n-j_s+1} \sum_{n_s=n+l-k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i-1} \sum_{l=0}^{(l_s - k + 1)} \sum_{j_i=s}^{l_i - k + 1} \sum_{n_i=n+l}^{n-j_i-k+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=0}^{i l - (n_i - j_i - s + 1)} \sum_{j_i = j_i - s + 1}^{(n_i - j_i - s + 1) + s - k}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{is} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{(n_i - j_s + 1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^{i l} \sum_{j_s=1}^{(n_i - j_s + 1)} \sum_{j_i=s}^{(n_i - j_s + 1)}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = n_i - j_s - j_{sa}^{ik})}^{(n_i - j_s + 1)} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{(n_i - j_s + 1)}$$

$$\frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{l_i - i^{l+1}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s-2)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-2 \cdot l_k-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-n-2 \cdot l_k-2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_s-s-j_s)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-j_i)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{(j_s=1)}^{(n_i-j_s+1)} \sum_{j_i=s}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
& \frac{(n_i+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-2 \cdot l_k-j_{sa}^s)!}{(n_i+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-n-2 \cdot l_k-2 \cdot j_{sa}^s)! \cdot (n-s)!} \cdot \\
& \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-s)!}
\end{aligned}$$

$$((D \geq n < D + s - n + 1) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbf{n} \wedge \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa} - \mathbb{K} \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = z \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \wedge$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l-1} \sum_{j_s=0}^{(l_s - i l + 1)} \sum_{j_i=0}^{l_i - k + 1} \sum_{n_i=n+l_k}^{n-j_s+1} \sum_{n_s=n+l_k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{i l} \sum_{j_s=1}^{()} \sum_{j_i=l_i+n-D}^{l_i - i l + 1} \\
& \sum_{n_i=n+l_k}^n \sum_{n_s=n-j_i+1}^{(n_i - j_i - k + 1)}
\end{aligned}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{1 \leq j_i-s+1 \\ j_i=l_i+1}}^{n-s-k} \frac{(n-s-k)!}{(n-s-k-j_i+1)! \cdot (j_i-1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{1 \leq j_s \\ j_s=j_s+1}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s-j_s+1)! \cdot (j_s-1)!} \cdot$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}} \sum_{\substack{1 \leq j_s \\ j_s=n_{ik}+j_s+j_{sa}^{lk}}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k})! \cdot (j_s-1)!} \cdot$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{lk} - \mathbf{n} - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot \mathbb{k} + j_{sa}^{lk} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_i < D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{lk} + 1 = l_s \wedge l_i + j_{sa}^{lk} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{l}_s-D-s+1)}^{(\mathbf{l}_s-j_s-k+1)} \sum_{j_i=j_s+1}^{(\mathbf{l}_i-j_s-k+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_s=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \sum_{j_i=j_i+1}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_s - n_s - 1)!}{(j_i - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}=n+\mathbb{k}-j_s+1}$$

$$\sum_{n_{ik}=n_{is}+j_s-j_{sa}^{ik}}^{n_{ik}=n_{is}+j_s-j_{sa}^{ik}} \sum_{(n_{is}=n+\mathbb{k}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n+\mathbb{k}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D + n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} + s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_i + n - D} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_{i+1}} \sum_{j_i=n-D}^{n - l_i + 1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_s+1)}$$

$$\frac{(n_i - j_s)!}{(j_i - j_s)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s + j_i - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{K}_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(\mathbf{l}_i + \mathbf{n} - D - s)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - k + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - n_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - j_s - k + 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-\mathbf{n}-2 \cdot \mathbb{k}-j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n}+s-s-j_s)!} \cdot$$

$$\frac{(l_s-k)}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D-j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq j_s + 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - 1 \wedge$$

$$D \geq l_i < n \wedge l = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i = 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = 1 + \mathbb{k} \wedge$$

$$l_{ik} \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{i=2}^{l-1} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_s - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-1} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i-1} \sum_{j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1}^{\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \sum_{k=1}^{i-1} \sum_{j_s=\mathbf{l}_{sa}+\mathbf{n}-D-j_{sa}+1}^{(\mathbf{l}_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n - l_i)!}{(n_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{l_{sa}} \sum_{j_i=1}^{l_{sa} + \mathbf{n} + s - D - j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_{sa}^i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee)$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{sa} + \mathbf{n} + s - D - j_s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_s + s - k + 1} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-n-l_{sa}+1} \frac{(n_i - j_s + 1)!}{(j_i - n_s - j_i + 1)!} \cdot \\
& \frac{(n_i - j_s + 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - j_s - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \frac{(n_i - j_s + 1)!}{(n_{is} + n_{ik} - j_s + 1)!} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot k - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i - s$$

$$\mathbf{s}:\{l_{sa}, l_{sa}^{i_a}\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_{\mathbb{Z}} \cap \mathbb{N} = 1 \Rightarrow$$

$$_{fz} S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{il-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{l}-1}^{l_i-1} \sum_{j_i=\mathbf{l}-D-j_{sa}+1}^{(l_s-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\sum_{i=1}^n} \sum_{(j_s=1)}^{l_{sa}+s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-n-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(l_s-n-1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s-1)} \sum_{j_i=l_i+n-D}^{l_{ik}-k+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i-n_{is}-1)!}{(j_s-1)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_s-k-1)!}{(n_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-k)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{l_s + s - \mathbf{n} - j_s + 1} \sum_{j_s = j_i - s + 1}^{(j_s = j_i - s + 1)} \sum_{j_i = l_i + \mathbf{n} - D}^{j_{sa}^{ik} + 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{K})}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + s + 1)!}{(j_s + j_i - l_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + s + 1)!}{(j_s + j_i - l_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^k}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+j_s+1}^n \frac{(n-j_s+1)!}{(n+\mathbf{n}+j_s+1)!}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)} \sum_{n_{ik}=j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)} \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-2\cdot\mathbb{k}-2\cdot j_{sa}^s)!}{(n_{is}+n_{ik}+2\cdot j_s+j_{sa}^{ik}-n_s-j_i-s-2\cdot\mathbb{k}-2\cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{n} > D - \mathbf{n} + 1 \wedge$$

$$2 \leq i_c \leq j_i - s + 1 \wedge$$

$$j_c + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_c \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D > \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{n+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-\mathbb{k})}^{(\cdot)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - \mathbf{n} - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - \mathbf{n} - j_i - s - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{(n + j_{sa}^s - s - j_s)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_s=s+1)} \sum_{j_i=l_i+n-D}^{s-k} \sum_{n_i=n+\mathbb{K}}^{(n_i-j_s+1)} \sum_{n_{is}=n+\mathbb{K}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{K}} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{j_i=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=0}^{l_s+s-\mathbf{n}-j_i} \sum_{n_i=\mathbf{n}+j_i}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(n_i-j_s+1)} \cdot$$

$$\frac{((\mathbf{n} + n_{ik} + j_{sa}^{ik}) - j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot \mathbb{k} + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$l_s - j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\}$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: Z = 1 \Rightarrow$$

$$f_Z S_{j_s}^{D,D} = \sum_{k=1}^{D-n} \sum_{j_s=l_s+n-D}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - \mathbf{n} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k + 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (\mathbf{n} - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DA} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=l_{sa}+s-k-j_{sa}+2}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - \mathbb{k} + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_s - l_s - s - 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_s=j_i-s+1}^{(\quad)} \sum_{j_i=l_i+\mathbf{n}-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{j_s, j_i}^{S_{D-n+1, D}} = \sum_{j_s=l_{sa}}^{D-n+1} \sum_{j_i=D-j_{sa}+1}^{D-s} \sum_{j_i=l_i+n-D}^{l_i-k+1} \sum_{n_i=n+k}^n \sum_{n_i=n+k-j_s+1}^{(n_i-j_s-k)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{j_s=l_i+n-D-s+1}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k} - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{k=\mathbf{l}_i+\mathbf{n}-D-s+1}^{j_{sa}-k-j_{sa}+2} \sum_{j_i=j_s+s-1}^{j_{sa}-k-j_{sa}+2} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_i+j_s-j_i-1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i - 1)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{D+l_i-n-l_i} \sum_{j_i=s+1}^{n-l_i+1} \sum_{l_{sa}=\mathbf{n}+s-D-j_{sa}}^{n_{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{K} - j_{sa}^s)!}{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{K} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+n_{is}-j_{sa}+1)}^{(l_{ik}-k-\mathbf{n})} \sum_{j_i=j_s+1}^{(n_{is}-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa} - \mathbf{n} - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n) \wedge \mathbf{n} - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 1 \Rightarrow$$

$$f_{z=1}^{DOSD}(j_i) = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(j_i-s-1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_s-k+1)} \sum_{j_i=l_{sa}+s-k-j_{sa}+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - \mathbb{k} - 1)!}{(l_s - j_s - \mathbb{k} + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_s - l_s - s - 1)!}{(j_s + l_i - \mathbf{n} - l_s - j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=0}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_s+s-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$DOSD_{j_s, j_i} = \sum_{k=1}^{D-n+1} \sum_{(j_s=l_s+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+\mathbb{K}}^{j_i-\mathbb{K}} \\
& \frac{(n_{is}-1)!}{(j_s-1)! \cdot (n_i-n_s+1)!} \cdot \\
& \frac{(n_{is}-n_s-\mathbb{K}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{K})!} \cdot \\
& \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-k-1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{K})}^{(\quad)}
\end{aligned}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - \mathbf{l}_i)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \cdot 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-j_{sa}^{ik}+2)}^{l_{ik}+1} \sum_{(n_i=n+\mathbb{k}-j_i+1)}^{n-j_s+1} \sum_{(n_s=n-j_i+1)}^{j_i-\mathbb{k}} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_s - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{l_i - i^{l+1}} \sum_{j_i=s}^{(n_i - j_i - \mathbb{k} + 1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i - j_i - \mathbb{k} + 1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} - \\
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+1}^n \sum_{(j_s=j_i-s+1)}^{(j_s=j_i-s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()} \sum_{(j_s=j_i-s+1)}^{(j_s=j_i-s+1)} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=i^l}^{()} \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()} \\
& \frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_i + j_{sa}^{ik} - s > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_{z,j_s,j_i}^{SDOSD} = & \sum_{k=1}^{l-1} \sum_{j_s=1}^{l-k-j_{sa}^{lk}+1} \sum_{j_i=j_s+s-1}^{l-k-j_{sa}^{lk}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^l \sum_{j_s=1}^{l-k} \sum_{j_i=s}^{l-k-j_{sa}^{lk}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})} \end{aligned}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot \sum_{k=1}^{i l-1} \sum_{j_i=2}^{l_{ik}-i k+2} \sum_{j_i=j_s+s}^{n_i-j_s+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{n_i-j_s+1} \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \sum_{k=l}^{(\quad)} \sum_{j_s=1}^{(\quad)} \sum_{j_i=s}^{(\quad)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_s-j_{sa}^{ik}}^{(\quad)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{(\quad)} \frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned} j_{sa}^{DOSD} = & \sum_{j_i=1}^{\mathbf{n}-1} \sum_{j_s=2}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - k + 1)!}{(l_s - j_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^i \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-i^{l+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s^{is})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
& \frac{(n_{is}+n_{ik}+j_s+j_{sa}^{ik}-n_s-j_i-s-\mathbb{k}-j_{sa}^s)!}{(n_{is}+n_{ik}+2 \cdot j_s+j_{sa}^{ik}-n_s-j_i-\mathbf{n}-2 \cdot \mathbb{k}-j_{sa}^s)!} \cdot \\
& \frac{1}{(n+j_i-s-j_s)!} \cdot \\
& \frac{(l_s-k)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-\mathbf{n}-l_i)! \cdot (n-j_i)!}
\end{aligned}$$

$$\begin{aligned}
& D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& 1 \leq j_s \leq j_i - s + 1 \wedge \\
& j_s + s - 1 \leq j_i \leq n \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge \\
& D + s - \mathbf{n} < l_i \leq D + l_s + \mathbf{n} - 1 \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1 \wedge \\
& j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^i, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\
& s > 2 \wedge \mathbf{s} = j_{sa}^i + \mathbb{k} \wedge \\
& \mathbb{k}_2 \geq 1 \Rightarrow
\end{aligned}$$

$$fzS_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=0}^{i^{l-1}} \sum_{j_s=l_i+\mathbf{n}-D-s+1}^{i^{l-1}-k-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\lfloor \frac{D-l_i}{2} \rfloor} \sum_{j_s=1}^{(l_i-l_i)} \sum_{j_i=l_i+n-D}^{l_i-l_i+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - \mathbb{k} + 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s - 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-1} \sum_{(j_i=l_i+n-D-s+1)}^{(l_{ik}-k-1)} \sum_{j_i=j_s+s-1}^{(l_{ik}-k-1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(l_i-l_s-s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{l_s+s-k}^{l_{ik}+s-k-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=l_s+s-k+1}^{l_{ik}+s-k-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^{\binom{D}{l}} \sum_{j_s=1}^{\binom{D}{l_s}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+n+s-D-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=j_i-s+1)}^{\binom{D}{l_s}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_{sa}^s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{is}, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^{is}, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k}_z: 2 \leq \mathbb{k} \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}.$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \sum_{k=1}^{l-1} \sum_{j_s=l_{ik}+\mathbf{n}-D-j_s+1}^{(l_s-k+1)} \sum_{j_i=j_s+s-l_{ik}+1}^{l_{ik}+s-l_{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}+\mathbb{k}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=1}^l \sum_{j_s=1}^{()} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}}^{l_{ik}+s-l_{ik}-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_s=\mathbf{n}-j_i+1}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=n-l_i}^n \sum_{n_{is}=n+l_k-j_s+1}^{n_{is}=n+l_k-j_s+1}$$

$$\sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{ik}=n_{is}-j_{sa}^{ik}} \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_{is}=n+l_k-j_s+1)} \sum_{(j_{sa}=j_s+s-1)}^{(j_{sa}=j_s+s-1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_{sa}^{ik} - n_s - j_i - s - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$(j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} \wedge \mathbf{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - \mathbb{K} \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \in \mathcal{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > z \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{j_s=1}^{(l_s - k + 1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i^l} \sum_{j_s=1}^{(l_s - i^{l+1})} \sum_{j_i=s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=0}^{i l - (n_i - j_i - s + k)} \sum_{j_i=j_i-s+1}^{(n_i - j_i - s + k)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}+j_{sa}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{is}+j_{sa}-j_s+1}^{(n_i-j_s+1)} \sum_{n_{is}+j_{sa}-j_s+1}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=0}^{i l - (n_i - j_i - s + k)} \sum_{j_s=1}^{(n_i - j_i - s + k)} \sum_{j_i=s}^{(n_i - j_i - s + k)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(n_i-j_s-j_{sa}^{ik})} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s$$

$$(l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)} \sum_{j_i=j_s+s-1}^{l_i-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - l_i - k + 1)!}{(l_s - l_i - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=l}^{()} \sum_{(j_s=1)}^{l_i - l^{l+1}} \sum_{j_i=s}^{l_i - l^{l+1}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \\
& \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{i^{l-1} (l_s-k+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s-2)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}))} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_s - s - j_s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{i^l} \sum_{(j_s=1)}^{()} \sum_{j_i=s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}))} \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}))} \\
& \frac{(n_i + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_i + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$((D \geq n < n + 1) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge l = \mathbb{N}_k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \in \mathbf{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > z \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \wedge$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{K}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}.$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{j_s=0}^{(l_s-1)} \sum_{j_i=0}^{l_i-k+1} \sum_{n_i=n+l_s-j_s+1}^{n} \sum_{n_s=n+l_s-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{j_s=1}^{(l_s-1)} \sum_{j_i=l_i+n-D}^{l_i-i l+1}$$

$$\sum_{n_i=n+l_s}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}.$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}.$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{1 \leq j_i-s+1 \\ j_i=l_i+\mathbb{k}}}^{n-l_s-k} \frac{(n_i-j_s-k)!}{(n_i-j_s-k)! \cdot (n_i-j_s-k)!}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{1 \leq j_s+1 \\ n_i=n_s+\mathbb{k}}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1)! \cdot (n_i-j_s+1)!}.$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}} \sum_{\substack{1 \leq j_s+1 \\ n_{ik}=n_{ik}+j_s+j_{sa}^{lk}}}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-j_s+1)! \cdot (n_i-j_s+1)!}.$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^s - \mathbf{n} - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot \mathbb{k} + j_{sa}^{lk} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{lk} + 1 = l_s \wedge l_i + j_{sa}^{lk} - s > l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \cap s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_s=\mathbf{l}_i+\mathbf{l}_s-2-s+1)}^{(\mathbf{l}_s-1-k+1)} \sum_{j_i=j_s+1}^{(\mathbf{l}_i-1-k+1)} \frac{(n_i - j_i - \mathbb{K} + 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_i - \mathbb{K} + 1)!} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^{(n_i-j_i+\mathbb{K})} \sum_{(n_s=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{K})} \sum_{j_i=j_i+1}^{(n_i-n_s-\mathbb{K}+1)} \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i\mathbf{l}} \sum_{(j_s=1)}^{(\mathbf{l}_s-1)} \sum_{j_i=\mathbf{l}_i+\mathbf{n}-D}^{\mathbf{l}_i-i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)} \sum_{j_{sa}=j_s+s-1}^{j_{sa}=j_s+s-1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}=n+\mathbb{k}-j_s+1}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_{sa}^{ik} + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D + n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa} + s + 1 \wedge$$

$$j_s + s + 1 \leq j_i \leq n$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^i = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_i + n - D} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
 & \sum_{k=1}^{i^{l-1} (l_{sa} - k - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - k + 1} \sum_{j_i = l_{sa} + s - k - j_{sa} + 2} \\
 & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot
 \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{()} \sum_{(j_s=1)}^{l_i - l_{i+1}} \sum_{j_i=n-D}^{n - l_{i+1} + 1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}^{(n_i - j_s + 1)} \\
& \frac{(n_i - l_s - l_k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - l_k + 1)!} \cdot \\
& \frac{(n_s + j_i - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot l_k - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot l_k - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 1 \Rightarrow$$

$$\begin{aligned} \mathbb{K}_Z S_{j_s, j_i}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(\mathbf{l}_i + \mathbf{n} - D - s)} \sum_{j_i = \mathbf{l}_i + \mathbf{n} - D}^{\mathbf{l}_i - k + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{K}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ &\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l-1} \sum_{(j_s=l_i+\mathbf{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-}$$

$$\frac{(n_i - n_{is} - \mathbb{k} + 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot$$

$$\frac{(n_s - j_i - \mathbf{n} - 1)!}{(n_s - j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - k - 1)!}{(l_i - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +$$

$$\sum_{k=1}^{i l} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-i l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-k-j_{sa}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - s - \mathbb{k} - j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + \mathbb{k} - s - j_s)!} \cdot$$

$$\frac{(l_s - k)}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq j_s + 1 \wedge$$

$$l_{ik} - j_{sa}^s + 1 = l_s \wedge l_s + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq l_i < n \wedge l = \mathbb{k} > 1 \wedge$$

$$j_{sa}^{lk} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^i, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$\mathbb{k} \Rightarrow$$

$$fz S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_{ik} + s - k - j_{sa}^{lk} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=2}^{i\mathbf{l}-1} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{(\mathbf{l}_{ik}-j_{sa}^{ik}+2)} \sum_{j_i=\mathbf{l}_{ik}+s-k-j_{sa}^{ik}+2}^{\mathbf{l}_{sa}+s-k-j_{sa}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(\mathbf{l}_i - \mathbf{l}_s - s + 1)!}{(j_s + \mathbf{l}_i - j_i - \mathbf{l}_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j_i - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-i-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - \mathbb{k} + 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_s - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=1)}^{(\quad)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, l_i}^{DOSD} = \sum_{k=1}^{i l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_{sa}+n-D-j_{sa})+(l_{sa}+s-k-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(i - j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=1}^{i l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_{ik}-k-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-k-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \mathbb{K} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{K})!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(n_i - l_i)!}{(n_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{i=1}^n \sum_{j_s=1}^{l_{sa}} \sum_{j_i=1}^{l_{sa} + \mathbf{n} + s - D - j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_s=\mathbf{n}-j_i+1)}^{(n_i-j_i-\mathbb{K}+1)}$$

$$\frac{(n_i - n_s - \mathbb{K} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{K} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_s=l_{sa}+\mathbf{n}-D-j_{sa}+1)}^{(l_{ik}-k-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!}.$$

$$\frac{1}{(n + j_{sa}^s - s - j_{sa}^i)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}.$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_s, j_i}^{DOSD} = & \sum_{k=1}^{i^{l-1} (j_i - s + 1)} \sum_{(j_s=2)}^{l_s + s - k} \sum_{j_i = l_{sa} + \mathbf{n} + s - D - j_s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\ & \frac{(l_s - k - 1)!}{(l_s + j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ & \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\ & \sum_{k=1}^{i^{l-1} (l_s - k + 1)} \sum_{(j_s=2)}^{l_{sa} + s - k - j_{sa} + 1} \sum_{j_i = l_s + s - k + 1} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = \mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\ & \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-n-l_i-j_{sa}+1} \frac{(n_i - n_s - j_i - \mathbb{k} - 1)!}{(n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(n_i - n_s - j_i - \mathbb{k} - 1)!}{(n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=1}^{l_s+s-n-l_i} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-k} \frac{(n_i - j_s + 1)!}{(n_{is}=n+\mathbb{k} - j_s + 1)!} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot \\
& \frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot
\end{aligned}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}.$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - j_{sa}^s \leq j_i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{K}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = j_{sa} + \mathbb{K} \wedge$$

$$\mathbb{K}_{Z^+} = 1 \Rightarrow$$

$$f_Z S_{j_s, j_i}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_s=2)}^{(l_{sa}+\mathbf{n}-D-j_{sa})} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-k-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} + \\
& \sum_{k=\mathbf{n}-D-j_{sa}+1}^{l_i-1} \sum_{j_i=j_s+s-1}^{(l_s-1) \cdot l_{sa}+s-k-j_{sa}+1} \cdot \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} +
\end{aligned}$$

$$\sum_{k=1}^{\sum_{i=1}^{\infty} l_i} \sum_{(j_s=1)}^{l_{sa}+s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-1} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-n-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(l_s-n-1)}$$

$$\frac{(n_{is} + n_{ik} + j_s + j_{sa}^{ik} - n_s - j_i - s - 2 \cdot \mathbb{k} - j_{sa}^s)!}{(n_{is} + n_{ik} + 2 \cdot j_s + j_{sa}^{ik} - n_s - j_i - n - 2 \cdot \mathbb{k} - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{1}{(n + j_{sa}^s - s - j_s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

DİZİN

B

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.1/3
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.2.1/3
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.2.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.3.1/3
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.3.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.1/2
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1/228
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1/290

Bağımlı ve bir bağımsız olasılıklı farklı bir bağımlı-bir bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.2.1/203
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.2.1/228

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.2.1/290

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.3.1/203
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.3.1/228
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.3.1/290

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.4.1.1/3
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1/3

Bağımlı ve bir bağımsız olasılıklı farklı olasılık, 2.3.1.3.1.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.4.2.1/3
toplam düzgün simetrik olasılık, 2.3.1.2.1.4.2.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.4.3.1/3
toplam düzgün simetrik olasılık, 2.3.1.2.1.4.3.1/3
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.1/207
toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1.1/236

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1.1/296-297

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.2.1/207

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.2.1/236

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.2.1/296-297

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.3.1/207

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.3.1/236

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.3.1/296-297

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.6.1.1/3

toplam düzgün simetrik olasılık, 2.3.1.2.1.6.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.6.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.6.2.1/3

toplam düzgün simetrik olasılık, 2.3.1.2.1.6.2.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.6.3.1/3

toplam düzgün simetrik olasılık, 2.3.1.2.1.6.3.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin durumuna bağlı

simetrik olasılık, 2.3.1.1.1.1.1.1/105

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1.1/85

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1.1/150-151

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin durumuna bağlı

simetrik olasılık, 2.3.1.1.1.1.1.1/105

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1.1/85

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1.1/150-151

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin durumuna bağlı

simetrik olasılık, 2.3.1.1.1.1.1.1/105

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1.1/85

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1.1/150-151

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.1.1.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.1.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.1.2.1/4

toplam düzgün simetrik olasılık, 2.3.1.2.2.1.2.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.2.1.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.1.3.1/4

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
simetrisinin 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 simetrisinin 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 simetrisinin 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
simetrisinin 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 simetrisinin 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 simetrisinin 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
simetrisinin 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 simetrisinin 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 simetrisinin 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
simetrisinin 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 simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.7.2.1/5

toplam düzgün simetrik olasılık,
2.3.1.2.2.7.2.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.2.7.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımlı simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.7.3.1/3-4

toplam düzgün simetrik olasılık,
2.3.1.2.2.7.3.1/3-4

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.2.7.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin ilk
ve herhangi bir durumunun bulunabileceği
olaylara göre

simetrik olasılık, 2.3.1.1.3.1.1.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.3.1.1.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.3.1.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.3.1.2.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.3.1.2.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.3.1.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.3.1.3.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.3.1.3.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.3.1.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrisinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.3.2.1.1/5

toplam düzgün simetrik olasılık,
2.3.1.2.3.2.1.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.3.2.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrisinin ilk ve herhangi bir
durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.3.2.2.1/5

toplam düzgün simetrik olasılık,
2.3.1.2.3.2.2.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.3.2.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk ve herhangi bir
durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.3.2.3.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.3.2.3.1/3-4

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.3.2.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin
herhangi bir durumuna bağlı

simetrik olasılık, 2.3.1.1.4.1.1.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.4.1.1.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.4.1.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin herhangi iki durumuna bağlı

simetrik olasılık, 2.3.1.1.4.1.2.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.4.1.2.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.4.1.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin herhangi iki durumuna bağlı

simetrik olasılık, 2.3.1.1.4.1.3.1/4

toplam düzgün simetrik olasılık,
2.3.1.2.4.1.3.1/3

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.4.1.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin her
durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.4.1.1.1/838

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız

simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.2.3.1/4-5
toplam düzgün simetrik olasılık,
2.3.1.2.5.2.3.1/4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.2.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.2.2.1/12
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.8.2.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.2.3.1/8
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.8.2.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.1.1.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.1.1.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.1.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.1.2.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.1.2.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.1.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.1.3.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.1.3.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.1.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.2.1.1/6
toplam düzgün simetrik olasılık, 2.3.1.2.6.2.1.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.2.1.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu

bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.2.2.1/6
toplam düzgün simetrik olasılık, 2.3.1.2.6.2.2.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.2.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.3.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.3.1/3-4
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.4.1.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.4.1.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.4.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.4.2.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.4.2.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.4.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.4.3.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.4.3.1/3-4

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.4.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.6.6.1.1/4-5
toplam düzgün simetrik olasılık, 2.3.1.2.6.6.1.1/3-4

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 simetrisinin 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 simetrisinin 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 simetrisinin 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, 2.3.1.3.6.7.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.1/7
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımlı durumlu bağımlı simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin 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 simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.4.1.1/7-8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.4.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı-bir bağımsız durumlu
 bağımsız simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.4.2.1/7-8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.4.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı-bir bağımsız durumlu
 bağımlı simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.4.3.1/7-8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.4.3.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı-bağımsız durumlu
 simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.4.4.1/7-8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.4.4.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı-bağımsız durumlu
 bağımsız simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.6.2.1/7-8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.6.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı-bağımsız durumlu
 bağımlı simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.6.3.1/7-8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.6.3.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımsız-bağımsız durumlu
 simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.7.1.1/12

toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.7.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımsız-bağımsız durumlu
 bağımsız simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.7.2.1/12
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.7.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımsız-bağımsız durumlu
 bağımlı simetrisinin ilk herhangi bir ve son
 durumunun bulunabileceği olaylara göre
 herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.7.3.1/8
 toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.9.7.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı-bağımsız durumlu
 simetrisinin ilk herhangi bir ve son durumunun
 bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.1.1.1/5
 toplam düzgün simetrik olasılık,
 2.3.1.2.7.1.1.1/3-4

toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.7.1.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı durumlu bağımsız
 simetrisinin ilk herhangi iki ve son
 durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.1.2.1/5
 toplam düzgün simetrik olasılık,
 2.3.1.2.7.1.2.1/3-4

toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.7.1.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımlı durumlu bağımlı
 simetrisinin ilk herhangi iki ve son
 durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.1.3.1/5
 toplam düzgün simetrik olasılık,
 2.3.1.2.7.1.3.1/3-4

toplam düzgün olmayan simetrik
 olasılık, 2.3.1.3.7.1.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
 dizilimsiz bağımsız-bağımlı durumlu
 simetrisinin ilk herhangi iki ve son
 durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.2.1.1/7

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 durumda
bağımsız simetrisinin 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 durumda
bağımlı simetrisinin 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 durumda
simetrisinin 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 durumda
bağımsız simetrisinin 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 durumda
bağımlı simetrisinin 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 durumda
simetrisinin 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 durumda
bağımsız simetrisinin 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 durumda
bağımlı simetrisinin 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 durumda
simetrisinin 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 durumda
bağımsız simetrisinin 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 durumda
bağımlı simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.7.7.3.1/5

toplam düzgün simetrik olasılık,
2.3.1.2.7.7.3.1/3-4

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.7.7.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrinin ilk
herhangi iki ve son durumunun
bulunabileceği olaylara göre herhangi bir
ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.1.1.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.1.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.1.2.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.1.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.1.3.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.1.3.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.2.1.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.2.1.1/23

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.2.2.1/22

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.2.2.1/23

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.2.3.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.2.3.1/13

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.4.1.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.4.1.1/23

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımsız simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.4.2.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.4.2.1/23

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımlı simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.4.3.1/12-13

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.10.4.3.1/23

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.6.1.1/12-13

toplam düzgün olmayan simetrik olasılık,
2.3.1.3.10.6.1.1/23

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.10.6.2.1/12-13
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

simetrik olasılık,
2.3.1.1.11.4.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.4.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumda
bağımsız simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.4.2.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.4.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumda
bağımlı simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.4.3.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.4.3.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumda
simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.6.1.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.6.1.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumda
bağımsız simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.6.2.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.6.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumda
bağımlı simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.6.3.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.6.3.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumda
simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.7.1.1/29

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.7.1.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumda
bağımsız simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.7.2.1/29

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.7.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumda
bağımlı simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre
herhangi iki ve son durumuna bağlı

simetrik olasılık,
2.3.1.1.11.7.3.1/16

toplam düzgün olmayan simetrik
olasılık, 2.3.1.3.11.7.3.1/17

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 ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılığın, tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık kitabında, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarında, simetrinin ilk ve son durumunun bulunabileceği olaylara göre 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 de ana eşitliklerden teorik yöntemle üretilmiştir. Eşitlik ve tanımların üretilmesinde dış kaynak kullanılmamıştır.